DEPARTMENT OF THE AIR FORCE

FY 1997
BUDGET ESTIMATES

DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

Military Construction and Family Housing

Justification Data
Submitted to Congress
March 1996

INSIDE THE UNITED STATES
OUTSIDE THE UNITED STATES
VARIOUS WORLDWIDE FAMILY HOUSING

19960409 232

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MILITARY CONSTRUCTION PROGRAM
FISCAL YEAR 1997

	PROJECT AUTH	AUTH FOR APPROP	APPROP
MILITARY CONSTRUCTION	(Sec 2301)	(Sec 2304)	
Inside the United States	472,229	472,229	472,229
Outside the United States	78,115	78,115	78,115
Planning and Design (10 USC 2807)	43,387	43,387	43,387
Unspecified Minor Construction (10 USC 2805)	9,328	9,328	9,328
TOTAL MILITARY CONSTRUCTION	603,059	603,059	603,059
MILITARY FAMILY HOUSING	(Sec 2302/2303)	(Sec 2304)	
New Construction	133,096	133,096	133,096
Improvements	88,550	88,550	88,550
Planning and Design	9,590	9,590	9,590
Subtotal	231,236	231,236	231,236
Operations, Utilities, and Maintenance	721,361	721,361	721,361
Leasing	108,083	108,083	108,083
Debt Payment	30	30	30
Subtotal	829,474	829,474	829,474
TOTAL MILITARY FAMILY HOUSING	1,060,710	1,060,710	1,060,710
GRAND TOTAL AIR FORCE	1,663,769	1,663,769	1,663,769

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STATE/COUNTRY / INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
ALABAMA					
MAXWELL AFB					
	OTS ACADEMIC FACILITY	7,875	7,875	7,875	45
	MAXWELL TOTAL:	7,875	7,875	7,875	
	ALABAMA TOTAL:	7,875	7,875	7,875	
ALASKA					
ELMENDORF AFB					
	UPGRADE STORM DRAINAGE SYSTEM	2,095	2,095	2,095	49
	HANGAR/SQ OPS/AMU/FACILITY	19,435	19,435	19,435	52
	ELMENDORF TOTAL:	21,530	21,530	21,530	
	ALASKA TOTAL:	21,530	21,530	21,530	
ARIZONA					
DAVIS-MONTHAN AFB					
	CONSOL MATERIAL PROCESS FAC	5,590	5,590	5,590	56
	EC-130 AIRCRAFT MAINT FACILITY	4,330	4,330	4,330	59
	DAVIS-MONTHAN TOTAL:	9,920	9,920	9,920	
	ARIZONA TOTAL:	9,920	9,920	9,920	
ARKANSAS					
LITTLE ROCK AFB					
	C-130 ADAL FIELD TRAINING FAC	1,525	1,525	1,525	63
	C-130 SQUADRON OPS/AMU (2)	14,045	14,045	14,045	66
	UPGRADE SANITARY SEWER SYSTEM	2,535	2,535	2,535	69
	LITTLE ROCK TOTAL:	18,105	18,105	18,105	
	ARKANSAS TOTAL:	18,105	18,105	18,105	

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
CALIFORNIA					
BEALE AFB					
	CARS DGS SUPPORT FACILITY	7,690	7,690	7,690	73
	LANDFILL CLOSURE	6,735	6,735	6,735	76
	BEALE TOTAL:	14,425	14,425	14,425	
EDWARDS AFB					
	ADAL ANECHOIC CHAMBER	4,890	4,890	4,890	80
	RENOVATE AIRCRAFT MAINT FAC	7,680	7,680	7,680	83
	CONVERT BOILERS	3,120	3,120	3,120	86
	F-22 ALTER AIRCRAFT MAINT FAC	4,390	4,390	4,390	89
	EDWARDS TOTAL:	20,080	20,080	20,080	
MCCLELLAN AFB					
	FLOOD CONTROL MEASURES	8,795	8,795	8,795	93
	MCCLELLAN TOTAL:	8,795	8,795	8,795	
TRAVIS AFB					
	DORMITORY	7,980	7,980	7,980	97
	TRAVIS TOTAL:	7,980	7,980	7,980	
VANDENBERG AFB					
	SATELLITE PROCESSING FACILITY	3,290	3,290	3,290	101
	VANDENBERG TOTAL:	3,290	3,290	3,290	
	CALIFORNIA TOTAL:	54,570	54,570	54,570	

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STATE/COUNTRY / INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
COLORADO					
BUCKLEY AFB					
	BASE SUPPLY AND EQUIPMENT WHSE	3,500	3,500	3,500	105
	SPC BASED INFRARED SYS OPS FAC	14,460	14,460	14,460	108
	BUCKLEY TOTAL:	17,960	17,960	17,960	
FALCON AFB					
	ALTER DINING FACILITY	2,095	2,095	2,095	112
	FALCON TOTAL:	2,095	2,095	2,095	
PETERSON AFB					
	DORMITORY	8,350	8,350	8,350	116
	MISSION SUPPORT FACILITY	12,370	12,370	12,370	119
	PETERSON TOTAL:	20,720	20,720	20,720	
USAF ACADEMY					
	UPGRADE ACADEMIC FACILITY	10,065	10,065	10,065	123
	USAF ACADEMY TOTAL:	10,065	10,065	10,065	
	COLORADO TOTAL:	50,840	50,840	50,840	
DELAWARE					
DOVER AFB					
	C-5 AERIAL DELIVERY FACILITY	7,980	7,980	7,980	127
	DOVER TOTAL:	7,980	7,980	7,980	
	DELAWARE TOTAL:	7,980	7,980	7,980	

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STATE/COUNTRY / INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
FLORIDA					
EGLIN AFB					
	UPGRADE ELECTRICAL DIST SYSTEM	4,590	4,590	4,590	131
	EGLIN TOTAL:	4,590	4,590	4,590	
EGLIN 9					
	TRANSIENT PERSONNEL QUARTERS	6,825	6,825	6,825	135
	EGLIN 9 TOTAL:	6,825	6,825	6,825	
PATRICK AFB					
	CONTROL TOWER	2,595	2,595	2,595	139
	PATRICK TOTAL:	2,595	2,595	2,595	
	FLORIDA TOTAL:	14,010	14,010	14,010	
GEORGIA					
ROBINS AFB					
	JSTARS ADAL APRON/HYD FUEL SYS	6,585	6,585	6,585	144
	JSTARS SQUADRON OPS/AMU FAC	8,270	8,270	8,270	147
	JSTARS ADAL ACFT MAINT SHOPS	1,645	1,645	1,645	150
	JSTARS CHILD DEVELOPMENT CTR	2,145	2,145	2,145	153
	ROBINS TOTAL:	18,645	18,645	18,645	
	GEORGIA TOTAL:	18,645	18,645	18,645	
IDAHO					
MT HOME AFB					
	FLIGHTLINE FIRE STATION	6,545	6,545	6,545	157
	MT HOME TOTAL:	6,545	6,545	6,545	
	IDAHO TOTAL:	6,545	6,545	6,545	
KANSAS					
MCCONNELL AFB					
	DORMITORY	8,480	8,480	8,480	161
	MCCONNELL TOTAL:	8,480	8,480	8,480	
	KANSAS TOTAL:	8,480	8,480	8,480	

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
LOUISIANA					
BARKSDALE AFB					
	UPGRADE SANITARY SEWER SYSTEM	2,390	2,390	2,390	165
	COMM SYSTEM SQUADRON COMPLEX	2,500	2,500	2,500	168
	BARKSDALE TOTAL:	4,890	4,890	4,890	
	LOUISIANA TOTAL:	4,890	4,890	4,890	
MARYLAND					
ANDREWS AFB					
	ALTER DORMITORY	5,990	5,990	5,990	172
	ANDREWS TOTAL:	5,990	5,990	5,990	
	MARYLAND TOTAL:	5,990	5,990	5,990	
MISSISSIPPI					
KEESLER AFB					
	STUDENT DORMITORY	14,465	14,465	14,465	176
	KEESLER TOTAL:	14,465	14,465	14,465	
	MISSISSIPPI TOTAL:	14,465	14,465	14,465	
NEVADA					
INDIAN SPRINGS AUX FIELD					
	UAV OPERATIONS AND MAINT FAC	4,690	4,690	4,690	180
	INDIAN SPRINGS AUX TOTAL:	4,690	4,690	4,690	
	NEVADA TOTAL:	4,690	4,690	4,690	
NEW JERSEY					
MCGUIRE AFB					
	DORMITORY	8,080	8,080	8,080	184
	MCGUIRE TOTAL:	8,080	8,080	8,080	
	NEW JERSEY TOTAL:	8,080	8,080	8,080	

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
NORTH CAROLINA					
POPE AFB					
	C-130 ADAL SQ OPS/AMU FACILITY	3,850	3,850	3,850	188
	UPGRADE SANITARY SEWER SYSTEM	2,065	2,065	2,065	191
	POPE TOTAL:	5,915	5,915	5,915	
SEYMOUR JOHNSON AFB					
	F-15E STUDENT OFFICER QUARTERS	1,925	1,925	1,925	195
	F-15E ADAL FLT SIMU TRAIN FAC	3,460	3,460	3,460	198
	F-15E AGE FACILITY/POD STORAGE	2,405	2,405	2,405	201
	F-15E SQ OPS/ALTR ACADEMIC FAC	3,490	3,490	3,490	204
	SEYMOUR JOHNSON TOTAL:	11,280	11,280	11,280	
	NORTH CAROLINA TOTAL:	17,195	17,195	17,195	
NORTH DAKOTA					
GRAND FORKS AFB					
	DINING FACILITY	5,985	5,985	5,985	208
	KC-135 SQ OPS/AMU	6,485	6,485	6,485	211
	GRAND FORKS TOTAL:	12,470	12,470	12,470	
MINOT AFB					
	UGND STORAGE TANKS--MSL FAC	3,940	3,940	3,940	215
	MINOT TOTAL:	3,940	3,940	3,940	
	NORTH DAKOTA TOTAL:	16,410	16,410	16,410	
OHIO					
WRIGHT-PATTERSON AFB					
	ADAL ENG AND RESEARCH LAB	7,400	7,400	7,400	219
	WRIGHT-PATTERSON TOTAL:	7,400	7,400	7,400	
	OHIO TOTAL:	7,400	7,400	7,400	

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STATE/COUNTRY / INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
OKLAHOMA					
TINKER AFB					
	CONSOL VEHICLE MAINT/METAL FAC	9,880	9,880	9,880	223
	TINKER TOTAL:	9,880	9,880	9,880	
	OKLAHOMA TOTAL:	9,880	9,880	9,880	
SOUTH CAROLINA					
CHARLESTON AFB					
	C-17 ADAL ACFT MAINT/NDI SHOP	4,590	4,590	4,590	227
	DORMITORY	8,180	8,180	8,180	230
	C-17 AIRCRAFT MAINT FACILITY	5,785	5,785	5,785	233
	C-17 ADAL APRON/HYDRANT SYSTEM	13,170	13,170	13,170	233
	C-17 SQ OPS/AMU	5,685	5,685	5,685	239
	CHARLESTON TOTAL:	37,410	37,410	37,410	
SHAW AFB					
	SECURITY POLICE OPERATIONS FAC	3,300	3,300	3,300	243
	UPGRADE SANITARY SEWER SYSTEM	2,365	2,365	2,365	246
	SHAW TOTAL:	5,665	5,665	5,665	
	SOUTH CAROLINA TOTAL:	43,075	43,075	43,075	
TENNESSEE					
ARNOLD AFB					
	UPGRADE ETF REFRIG SYS PLANT-C	3,790	3,790	3,790	250
	UPGRADE AIR INDUCTION SYSTEM	2,991	2,991	2,991	253
	ARNOLD TOTAL:	6,781	6,781	6,781	
	TENNESSEE TOTAL:	6,781	6,781	6,781	

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
TEXAS					
DYESS AFB					
	ADD TO AND ALTER DORMITORIES	5,895	5,895	5,895	257
	DYESS TOTAL:	5,895	5,895	5,895	
KELLY AFB					
	WING SUPPORT FACILITY	3,250	3,250	3,250	261
	KELLY TOTAL:	3,250	3,250	3,250	
LACKLAND AFB					
	PIF COMBAT ARMS TRAINING FAC	4,800	4,800	4,800	265
	UPGRADE RECRUIT DORMITORY	4,613	4,613	4,613	268
	LACKLAND TOTAL:	9,413	9,413	9,413	
SHEPPARD AFB					
	CONSOLIDATED LOGISTICS WAREHSE	9,400	9,400	9,400	272
	SHEPPARD TOTAL:	9,400	9,400	9,400	
	TEXAS TOTAL:	27,958	27,958	27,958	
UTAH					
HILL AFB					
	CORRECT FIRE PROTECTION DEFIC	3,690	3,690	3,690	276
	HILL TOTAL:	3,690	3,690	3,690	
	UTAH TOTAL:	3,690	3,690	3,690	
VIRGINIA					
LANGLEY AFB					
	ALTER HQ ACC FACILITIES	5,160	5,160	5,160	280
	UPGRADE SANITARY SEWER SYSTEM	2,845	2,845	2,845	283
	LANGLEY TOTAL:	8,005	8,005	8,005	
	VIRGINIA TOTAL:	8,005	8,005	8,005	

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STATE/COUNTRY / INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
WASHINGTON					
FAIRCHILD AFB					
	KC-135 SQ OPS/AMU	7,280	7,280	7,280	287
	KC-135 HYDRANT FUELING SYSTEM	10,875	10,875	10,875	290
	FAIRCHILD TOTAL:	18,155	18,155	18,155	
MCCHORD AFB					
	C-17 ADD TO FLIGHT SIMULATOR	2,095	2,095	2,095	295
	C-17 MAINT TRAINING FACILITY	5,685	5,685	5,685	298
	C-17 FUEL CELL MAINTENANCE FAC	7,480	7,480	7,480	301
	C-17 CORROSION CONTROL FAC	11,570	11,570	11,570	304
	C-17 BEDDOWN SUPPORT UTILITIES	5,985	5,985	5,985	307
	C-17 ALTER HYDRANT FUELING SYS	1,100	1,100	1,100	310
	C-17 ADAL AVIONICS MAINT FAC	1,300	1,300	1,300	313
	C-17 MODULAR REPLACEMENT CNT	16,460	16,460	16,460	316
	DORMITORY	5,390	5,390	5,390	319
	MCCHORD TOTAL:	57,065	57,065	57,065	
	WASHINGTON TOTAL:	75,220	75,220	75,220	
	INSIDE THE U.S. TOTAL:	472,229	472,229	472,229	

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STATE/COUNTRY / INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
GERMANY					
RAMSTEIN AB					
	DORMITORY	5,370	5,370	5,370	323
	RAMSTEIN TOTAL:	5,370	5,370	5,370	
SPANGDAHLEM AB					
	FIRE STATION	1,890	1,890	1,890	327
	SPANGDAHLEM TOTAL:	1,890	1,890	1,890	
	GERMANY TOTAL:	7,260	7,260	7,260	
ITALY					
AVIANO AB					
	CONSOLIDATED SUPPORT CENTER	5,225	5,225	5,225	331
	UPGRADE ELECTRICAL DIST SYSTEM	1,935	1,935	1,935	334
	UPG FLIGHTLINE WATER DIST SYS	2,900	2,900	2,900	337
	AVIANO TOTAL:	10,060	10,060	10,060	
	ITALY TOTAL:	10,060	10,060	10,060	
KOREA					
OSAN AB					
	DORMITORY	9,780	9,780	9,780	341
	OSAN TOTAL:	9,780	9,780	9,780	
	KOREA TOTAL:	9,780	9,780	9,780	
OUTSIDE THE U.S.					
CLASSIFIED LOCATION					
	MUNITIONS STORAGE IGLOOS	6,735	6,735	6,735	345
	SPECIAL TACTICAL UNIT DET FAC	3,680	3,680	3,680	348
	WRM WAREHOUSES	5,765	5,765	5,765	349
	WRM WAREHOUSE	2,215	2,215	2,215	352
	CLASSIFIED LOCATION TOTAL:	18,395	18,395	18,395	
	OUTSIDE THE U.S. TOTAL:	18,395	18,395	18,395	

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(DOLLARS IN THOUSANDS)
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STATE/COUNTRY / INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
TURKEY					
INCIRLIK AB					
	BASE OPS & CONTROL TOWER COMPL	3,680	3,680	3,680	356
	ADAL TRANSIENT DORMITORY	1,740	1,740	1,740	359
	ADAL PHYSICAL FITNESS CENTER	1,740	1,740	1,740	362
	INCIRLIK TOTAL:	7,160	7,160	7,160	
	TURKEY TOTAL:	7,160	7,160	7,160	
UNITED KINGDOM					
CROUGHTON RAF					
	FIRE STATION	1,740	1,740	1,740	366
	CROUGHTON TOTAL:	1,740	1,740	1,740	
LAKENHEATH RAF					
	DORMITORY	7,950	7,950	7,950	370
	F-15E ADAL WEAPONS RELEASE FAC	2,615	2,615	2,615	373
	F-15E ADD TO JET ENGINE SHOP	2,700	2,700	2,700	376
	DORMITORY	4,260	4,260	4,260	379
	LAKENHEATH TOTAL:	17,525	17,525	17,525	
MILDENHALL AFB					
	DORMITORY	6,195	6,195	6,195	383
	MILDENHALL TOTAL:	6,195	6,195	6,195	
	UNITED KINGDOM TOTAL:	25,460	25,460	25,460	
	OUTSIDE THE U.S. TOTAL:	78,115	78,115	78,115	

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MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
(DOLLARS IN THOUSANDS)
WORLDWIDE

STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
VARIOUS LOCATIONS					
VARIOUS					
	UNSPECIFIED MINOR CONSTRUCTION	9,328	9,328	9,328	388
	PLANNING AND DESIGN	43,387	43,387	43,387	386
	VARIOUS TOTAL:	52,715	52,715	52,715	
	VARIOUS LOCATIONS TOTAL:	52,715	52,715	52,715	
	WORLDWIDE TOTAL:	52,715	52,715	52,715	
	FY 1997 TOTAL:	603,059	603,059	603,059	

DEFINITIONS OF NEW AND CURRENT MISSION

NEW MISSION PROJECTS - These projects support the deployment and beddown of new weapons systems, new or additional aircraft, missile, and space projects and support of new equipment such as radar's, communications, computers satellite tracking and electronic security. New mission projects all support new programs and initiatives that do not revitalize the existing physical plant. The projects support new and additional requirements. Planning and design and minor construction are also included in this category.

CURRENT MISSION PROJECTS - These projects revitalize the existing facility plant by replacement or upgrading existing facilities and by alleviating long standing deficiencies not generated by new missions or equipment. Included are projects to improve the quality of life, upgrade the workplace and projects to increase productivity and achieve compliance with environmental, health and safety standards.

FY 97	($000)
NEW MISSION	$298,455
CURRENT MISSION	$304,604
TOTAL:	$603,059

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CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
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STATE/COUNTRY / INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
ALABAMA			
MAXWELL AFB			
	OTS ACADEMIC FACILITY	7,875	NM
	MAXWELL TOTAL:	7,875	
	ALABAMA TOTAL:	7,875	
ALASKA			
ELMENDORF AFB			
	UPGRADE STORM DRAINAGE SYSTEM	2,095	CM
	HANGAR/SQ OPS/AMU/FACILITY	19,435	CM
	ELMENDORF TOTAL:	21,530	
	ALASKA TOTAL:	21,530	
ARIZONA			
DAVIS-MONTHAN AFB			
	CONSOL MATERIAL PROCESS FAC	5,590	CM
	EC-130 AIRCRAFT MAINT FACILITY	4,330	NM
	DAVIS-MONTHAN TOTAL:	9,920	
	ARIZONA TOTAL:	9,920	
ARKANSAS			
LITTLE ROCK AFB			
	C-130 ADAL FIELD TRAINING FAC	1,525	NM
	C-130 SQUADRON OPS/AMU (2)	14,045	NM
	UPGRADE SANITARY SEWER SYSTEM	2,535	CM
	LITTLE ROCK TOTAL:	18,105	
	ARKANSAS TOTAL:	18,105	

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CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
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STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
CALIFORNIA			
BEALE AFB			
	CARS DGS SUPPORT FACILITY	7,690	NM
	LANDFILL CLOSURE	6,735	CM
	BEALE TOTAL:	14,425	
EDWARDS AFB			
	ADAL ANECHOIC CHAMBER	4,890	NM
	RENOVATE AIRCRAFT MAINT FAC	7,680	CM
	CONVERT BOILERS	3,120	CM
	F-22 ALTER AIRCRAFT MAINT FAC	4,390	NM
	EDWARDS TOTAL:	20,080	
MCCLELLAN AFB			
	FLOOD CONTROL MEASURES	8,795	CM
	MCCLELLAN TOTAL:	8,795	
TRAVIS AFB			
	DORMITORY	7,980	CM
	TRAVIS TOTAL:	7,980	
VANDENBERG AFB			
	SATELLITE PROCESSING FACILITY	3,290	CM
	VANDENBERG TOTAL:	3,290	
	CALIFORNIA TOTAL:	54,570	

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CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
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STATE/COUNTRY / INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
COLORADO			
BUCKLEY AFB			
	BASE SUPPLY AND EQUIPMENT WHSE	3,500	NM
	SPC BASED INFRARED SYS OPS FAC	14,460	NM
	BUCKLEY TOTAL:	17,960	
FALCON AFB			
	ALTER DINING FACILITY	2,095	CM
	FALCON TOTAL:	2,095	
PETERSON AFB			
	DORMITORY	8,350	CM
	MISSION SUPPORT FACILITY	12,370	CM
	PETERSON TOTAL:	20,720	
USAF ACADEMY			
	UPGRADE ACADEMIC FACILITY	10,065	CM
	USAF ACADEMY TOTAL:	10,065	
	COLORADO TOTAL:	50,840	
DELAWARE			
DOVER AFB			
	C-5 AERIAL DELIVERY FACILITY	7,980	NM
	DOVER TOTAL:	7,980	
	DELAWARE TOTAL:	7,980	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

STATE/COUNTRY / INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
FLORIDA			
EGLIN AFB			
	UPGRADE ELECTRICAL DIST SYSTEM	4,590	CM
	EGLIN TOTAL:	4,590	
EGLIN 9			
	TRANSIENT PERSONNEL QUARTERS	6,825	CM
	EGLIN 9 TOTAL:	6,825	
PATRICK AFB			
	CONTROL TOWER	2,595	CM
	PATRICK TOTAL:	2,595	
	FLORIDA TOTAL:	14,010	
GEORGIA			
ROBINS AFB			
	JSTARS ADAL APRON/HYD FUEL SYS	6,585	NM
	JSTARS SQUADRON OPS/AMU FAC	8,270	NM
	JSTARS ADAL ACFT MAINT SHOPS	1,645	NM
	JSTARS CHILD DEVELOPMENT CTR	2,145	NM
	ROBINS TOTAL:	18,645	
	GEORGIA TOTAL:	18,645	
IDAHO			
MT HOME AFB			
	FLIGHTLINE FIRE STATION	6,545	CM
	MT HOME TOTAL:	6,545	
	IDAHO TOTAL:	6,545	
KANSAS			
MCCONNELL AFB			
	DORMITORY	8,480	CM
	MCCONNELL TOTAL:	8,480	
	KANSAS TOTAL:	8,480	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
LOUISIANA			
BARKSDALE AFB			
	UPGRADE SANITARY SEWER SYSTEM	2,390	CM
	COMM SYSTEM SQUADRON COMPLEX	2,500	NM
	BARKSDALE TOTAL:	4,890	
	LOUISIANA TOTAL:	4,890	
MARYLAND			
ANDREWS AFB			
	ALTER DORMITORY	5,990	CM
	ANDREWS TOTAL:	5,990	
	MARYLAND TOTAL:	5,990	
MISSISSIPPI			
KEESLER AFB			
	STUDENT DORMITORY	14,465	CM
	KEESLER TOTAL:	14,465	
	MISSISSIPPI TOTAL:	14,465	
NEVADA			
INDIAN SPRINGS AUX FIELD			
	UAV OPERATIONS AND MAINT FAC	4,690	NM
	INDIAN SPRINGS AUX TOTAL:	4,690	
	NEVADA TOTAL:	4,690	
NEW JERSEY			
MCGUIRE AFB			
	DORMITORY	8,080	CM
	MCGUIRE TOTAL:	8,080	
	NEW JERSEY TOTAL:	8,080	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
NORTH CAROLINA			
POPE AFB			
	C-130 ADAL SQ OPS/AMU FACILITY	3,850	NM
	UPGRADE SANITARY SEWER SYSTEM	2,065	CM
	POPE TOTAL:	5,915	
SEYMOUR JOHNSON AFB			
	F-15E STUDENT OFFICER QUARTERS	1,925	NM
	F-15E ADAL FLT SIMU TRAIN FAC	3,460	NM
	F-15E AGE FACILITY/POD STORAGE	2,405	NM
	F-15E SQ OPS/ALTR ACADEMIC FAC	3,490	NM
	SEYMOUR JOHNSON TOTAL:	11,280	
	NORTH CAROLINA TOTAL:	17,195	
NORTH DAKOTA			
GRAND FORKS AFB			
	DINING FACILITY	5,985	CM
	KC-135 SQ OPS/AMU	6,485	NM
	GRAND FORKS TOTAL:	12,470	
MINOT AFB			
	UGND STORAGE TANKS--MSL FAC	3,940	CM
	MINOT TOTAL:	3,940	
	NORTH DAKOTA TOTAL:	16,410	
OHIO			
WRIGHT-PATTERSON AFB			
	ADAL ENG AND RESEARCH LAB	7,400	CM
	WRIGHT-PATTERSON TOTAL:	7,400	
	OHIO TOTAL:	7,400	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
OKLAHOMA			
TINKER AFB			
	CONSOL VEHICLE MAINT/METAL FAC	9,880	CM
	TINKER TOTAL:	9,880	
	OKLAHOMA TOTAL:	9,880	
SOUTH CAROLINA			
CHARLESTON AFB			
	C-17 ADAL ACFT MAINT/NDI SHOP	4,590	NM
	DORMITORY	8,180	CM
	C-17 AIRCRAFT MAINT FACILITY	5,785	NM
	C-17 ADAL APRON/HYDRANT SYSTEM	13,170	NM
	C-17 SQ OPS/AMU	5,685	NM
	CHARLESTON TOTAL:	37,410	
SHAW AFB			
	SECURITY POLICE OPERATIONS FAC	3,300	CM
	UPGRADE SANITARY SEWER SYSTEM	2,365	CM
	SHAW TOTAL:	5,665	
	SOUTH CAROLINA TOTAL:	43,075	
TENNESSEE			
ARNOLD AFB			
	UPGRADE ETF REFRIG SYS PLANT-C	3,790	CM
	UPGRADE AIR INDUCTION SYSTEM	2,991	CM
	ARNOLD TOTAL:	6,781	
	TENNESSEE TOTAL:	6,781	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
TEXAS			
DYESS AFB			
	ADD TO AND ALTER DORMITORIES	5,895	CM
	DYESS TOTAL:	5,895	
KELLY AFB			
	WING SUPPORT FACILITY	3,250	CM
	KELLY TOTAL:	3,250	
LACKLAND AFB			
	PIF COMBAT ARMS TRAINING FAC	4,800	CM
	UPGRADE RECRUIT DORMITORY	4,613	CM
	LACKLAND TOTAL:	9,413	
SHEPPARD AFB			
	CONSOLIDATED LOGISTICS WAREHSE	9,400	CM
	SHEPPARD TOTAL:	9,400	
	TEXAS TOTAL:	27,958	
UTAH			
HILL AFB			
	CORRECT FIRE PROTECTION DEFIC	3,690	CM
	HILL TOTAL:	3,690	
	UTAH TOTAL:	3,690	
VIRGINIA			
LANGLEY AFB			
	ALTER HQ ACC FACILITIES	5,160	CM
	UPGRADE SANITARY SEWER SYSTEM	2,845	CM
	LANGLEY TOTAL:	8,005	
	VIRGINIA TOTAL:	8,005	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
WASHINGTON			
FAIRCHILD AFB			
	KC-135 SQ OPS/AMU	7,280	NM
	KC-135 HYDRANT FUELING SYSTEM	10,875	NM
	FAIRCHILD TOTAL:	18,155	
MCCHORD AFB			
	C-17 ADD TO FLIGHT SIMULATOR	2,095	NM
	C-17 MAINT TRAINING FACILITY	5,685	NM
	C-17 FUEL CELL MAINTENANCE FAC	7,480	NM
	C-17 CORROSION CONTROL FAC	11,570	NM
	C-17 BEDDOWN SUPPORT UTILITIES	5,985	NM
	C-17 ALTER HYDRANT FUELING SYS	1,100	NM
	C-17 ADAL AVIONICS MAINT FAC	1,300	NM
	C-17 MODULAR REPLACEMENT CNT	16,460	NM
	DORMITORY	5,390	CM
	MCCHORD TOTAL:	57,065	
	WASHINGTON TOTAL:	75,220	
	INSIDE THE U.S. TOTAL:	472,229	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
OUTSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
GERMANY			
RAMSTEIN AB			
	DORMITORY	5,370	CM
	RAMSTEIN TOTAL:	5,370	
SPANGDAHLEM AB			
	FIRE STATION	1,890	CM
	SPANGDAHLEM TOTAL:	1,890	
	GERMANY TOTAL:	7,260	
ITALY			
AVIANO AB			
	CONSOLIDATED SUPPORT CENTER	5,225	CM
	UPGRADE ELECTRICAL DIST SYSTEM	1,935	NM
	UPG FLIGHTLINE WATER DIST SYS	2,900	NM
	AVIANO TOTAL:	10,060	
	ITALY TOTAL:	10,060	
KOREA			
OSAN AB			
	DORMITORY	9,780	CM
	OSAN TOTAL:	9,780	
	KOREA TOTAL:	9,780	
OUTSIDE THE U.S.			
CLASSIFIED LOCATION			
	MUNITIONS STORAGE IGLOOS	6,735	NM
	SPECIAL TACTICAL UNIT DET FAC	3,680	NM
	WRM WAREHOUSES	5,765	NM
	WRM WAREHOUSE	2,215	NM
	CLASSIFIED LOCATION TOTAL:	18,395	
	OUTSIDE THE U.S. TOTAL:	18,395	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
OUTSIDE THE U.S.

STATE/COUNTRY / INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
TURKEY			
INCIRLIK AB			
	BASE OPS & CONTROL TOWER COMPL	3,680	CM
	ADAL TRANSIENT DORMITORY	1,740	CM
	ADAL PHYSICAL FITNESS CENTER	1,740	CM
	INCIRLIK TOTAL:	7,160	
	TURKEY TOTAL:	7,160	
UNITED KINGDOM			
CROUGHTON RAF			
	FIRE STATION	1,740	CM
	CROUGHTON TOTAL:	1,740	
LAKENHEATH RAF			
	DORMITORY	7,950	CM
	F-15E ADAL WEAPONS RELEASE FAC	2,615	NM
	F-15E ADD TO JET ENGINE SHOP	2,700	NM
	DORMITORY	4,260	CM
	LAKENHEATH TOTAL:	17,525	
MILDENHALL AFB			
	DORMITORY	6,195	CM
	MILDENHALL TOTAL:	6,195	
	UNITED KINGDOM TOTAL:	25,460	
	OUTSIDE THE U.S. TOTAL:	78,115	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
WORLDWIDE

STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
VARIOUS LOCATIONS			
VARIOUS			
	UNSPECIFIED MINOR CONSTRUCTION	9,328	NM
	PLANNING AND DESIGN	43,387	NM
	VARIOUS TOTAL:	52,715	
	VARIOUS LOCATIONS TOTAL:	52,715	
	WORLDWIDE TOTAL:	52,715	
	FY 1997 TOTAL:	603,059	

MILITARY CONSTRUCTION PROGRAM
FY 1997 PRESIDENT'S BUDGET
INSTALLATION INDEX

INSTALLATION	COMMAND	STATE/COUNTRY	PAGE
ANDREWS AFB	AMC	MARYLAND	171
ARNOLD AFB	AFMC	TENNESSEE	249
AVIANO	USAFE	ITALY	330
BARKSDALE AFB	ACC	LOUISIANA	164
BEALE AFB	ACC	CALIFORNIA	72
BUCKLEY ANGB	AFMC	COLORADO	104
CHARLESTON AFB	AMC	SOUTH CAROLINA	226
CLASSIFIED LOCATIONS	LEE	CLASSIFIED	344
CROUGHTON RAF	USAFE	UNITED KINGDOM	365
DAVIS-MONTHAN AFB	ACC	ARIZONA	55
DOVER AFB	AMC	DELAWARE	126
DYESS AFB	ACC	TEXAS	256
EDWARDS AFB	AFMC	CALIFORNIA	79
EGLIN AFB	AFMC	FLORIDA	130
EGLIN AUX FIELD #9	AFSOC	FLORIDA	134
ELMENDORF AFB	PACAF	ALASKA	48
FAIRCHILD AFB	AMC	WASHINGTON	286
FALCON AFB	SPACECOM	COLORADO	111
GRAND FORKS AFB	AMC	NORTH DAKOTA	207
HILL AFB	AFMC	UTAH	275
INCIRLIK AB	USAFE	TURKEY	355
INDIAN SPRING AUX FIELD	ACC	NEVADA	179
KEESLER AFB	AETC	MISSISSIPPI	175
KELLY AFB	AFMC	TEXAS	260
LACKLAND AFB	AETC	TEXAS	264
LAKENHEATH RAF	USAFE	UNITED KINGDOM	369
LANGLEY AFB	ACC	VIRGINIA	279
LITTLE ROCK AFB	ACC	ARKANSAS	62

MILITARY CONSTRUCTION PROGRAM
FY 1997 PRESIDENT'S BUDGET
INSTALLATION INDEX

INSTALLATION	COMMAND	STATE/COUNTRY	PAGE
MAXWELL AFB	AETC	ALABAMA	44
MCCHORD AFB	AMC	WASHINGTON	293
MCCLELLAN AFB	AFMC	CALIFORNIA	92
MCCONNELL AFB	AMC	KANSAS	160
MCGUIRE AFB	AMC	NEW JERSEY	183
MILDENHALL RAF	USAFE	UNITED KINGDOM	382
MINOT AFB	ACC	NORTH DAKOTA	214
MOUNTAIN HOME AFB	ACC	IDAHO	156
OSAN AB	PACAF	KOREA	340
PATRICK AFB	SPACECOM	FLORIDA	138
PETERSON AFB	SPACECOM	COLORADO	115
POPE AFB	ACC	NORTH CAROLINA	187
RAMSTEIN AB	USAFE	GERMANY	322
ROBINS AFB	AFMC	GEORGIA	142
SEYMOUR JOHNSON AFB	ACC	NORTH CAROLINA	194
SHAW AFB	ACC	SOUTH CAROLINA	242
SHEPPARD AFB	AETC	TEXAS	271
SPANGDAHLEM AB	USAFE	GERMANY	326
TINKER AFB	AFMC	OKLAHOMA	222
TRAVIS AFB	AMC	CALIFORNIA	96
USAF ACADEMY	USAFA	COLORADO	122
VANDENBERG AFB	SPACECOM	CALIFORNIA	100
VARIOUS LOCATIONS	SUPPORT	WORLDWIDE	386
WRIGHT-PATTERSON AFB	AFMC	OHIO	218

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FISCAL YEAR 1997

ECONOMIC CONSIDERATIONS

An economic evaluation has been accomplished for all projects costing over $2 million and the results are addressed in the individual DD Forms 1391.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL

In accordance with Public Law, 90-480, provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program

ENVIRONMENTAL STATEMENT

In accordance with Section 102(2) (c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process (EIAP) has been completed or is actively underway for all projects in the Air Force FY 1997 Military Construction Program.

EVALUATION OF FLOOD PLAINS AND WETLANDS

All projects in the program have been evaluated for compliance with Executive Orders 11988, Flood plain Management, and 11990, Protection of Wetlands, and the Flood plain Management Guidelines of U.S. Water Resources Council. Projects have been sited to avoid or reduce the risk of flood loss, minimize the impact of floods or human safety, health and welfare, preserve and enhance the natural and beneficial values of wetlands and minimize the destruction, loss or degradation of wetlands.

ENVIRONMENTAL COMPLIANCE

The FY 97 MILCON request includes $32 million for requirements necessary to correct current environmental noncompliance situations and to prevent future noncompliance. The environmental compliance target areas for this program include sanitary sewer/storm water systems, underground fuel storage tanks, emission control systems, and a landfill closure project.

FY 1997

CONGRESSIONAL REPORTING REQUIREMENTS

1. STATEMENTS ON NATO ELIGIBILITY

These are in response to the requirement in the FY 1988 Senate Appropriations Committee Report, 100-200, page 13, and are included in the appropriate project justification.

2. STATEMENTS ON COMPLIANCE WITH CONSTRUCTION MANUAL 4210.1M

These are in response to the requirement in the FY 1988 Senate Appropriations Conference Report, 100-498, page 1003, and are included in each project justification.

3. NEW AND CURRENT MISSION ACTIVITIES

The FY 1989 Senate Appropriations Committee Report, 100-380, pages 10 and 11, identified a requirement to include an exhibit in the budget justification books that displayed required projects in two separate categories: New Mission and Current Mission. The CM (current mission) or NM (new mission) designation which follows the project on the listing at page 16 identifies each project as new or current mission. Current mission MILCON is further broken down to indicate environmental projects. Additionally, each justification in Block 11 of the DD Form 1391 indicates whether the project supports a new or current mission.

4. RESOLUTION TRUST CORPORATION ASSETS

Senate Armed Services Committee Report 101-384, dated 20 July 1990, on the National Defense Authorization Act for FY 91 requested the Department of screen Resolution Trust Corporation assets to determine if proposed construction projects could be more economically met through the purchase of existing assets held by the Resolution Trust Corporation. The FY 97 Military Construction programs was compared to the current real estate asset inventory published by the Resolution Trust Corporation. It was determined and the Department certified that no assets exist that can be economically used in lieu of the FY 97 projects requested.

FY 1997

THIRD PARTY FINANCING

Test of long-term facilities contracts	**NONE**

FY 1997

NON-MILCON FUNDING

Research and Development (RDT&E)	**NONE**

APPROPRIATIONS LANGUAGE

MILITARY CONSTRUCTION, AIR FORCE

For acquisition, construction, installation, and equipment of temporary or permanent public works, military installations, facilities, and real property of the Air Force as currently authorized by law $603,059,000 to remain available until September 30, 2001: Provided that, of this amount, not to exceed $43,387,000 shall be available for study, planning, design, architect and engineer services, as authorized by law, unless the Secretary of Defense determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of his determination and the reasons therefore.

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1991

TPGE 680

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
00.0101 Major construction				31,579		
00.0201 Minor construction				55		
00.0301 Planning				754		
00.0401 Supporting activities				878		
00.9101 Total direct program				33,266		
10.0001 Total				33,266		
Financing:						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-44,886		
21.4009 Reprograming from/to prior year budget plan	-11,620					
25.0001 Unobligated balance expiring	11,620			11,620		
39.0001 Budget authority						

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1992

TPGE 681

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1995 actual	1996 est.	1997 est.	Obligations 1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
00.0101 Major construction				84,444	54,208	
00.0201 Minor construction				355	3,462	
00.0301 Planning				3,030		
00.0401 Supporting activities				1,652		
00.9101 Total direct program				89,481	57,670	
10.0001 Total				89,481	57,670	
Financing:						
Offsetting collections from:						
11.0001 Federal funds(-)				272		
17.0001 Recovery of prior year obligations				-272		
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-155,916	-57,670	
21.4003 Available to finance new budget plans	-3,029	-8,765		-3,029	-8,765	
21.4009 Reprograming from/to prior year budget plan	-8,765					
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				57,670		
24.4003 Available to finance subsequent year budget	8,765			8,765		
39.0001 Budget authority	-3,029	-8,765		-3,029	-8,765	
Budget authority:						
40.0001 Appropriation rescinded (unob bal)	-3,029			-3,029		
40.3601 Appropriation rescinded (unob bal)		-8,765			-8,765	
43.0001 Appropriation (adjusted)	-3,029	-8,765		-3,029	-8,765	

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1993

TPGE 682

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
00.0101 Major construction				73,810	56,473	2,097
00.0201 Minor construction				390		
00.0301 Planning				2,888		
00.9101 Total direct program				77,088	56,473	2,097
10.0001 Total				77,088	56,473	2,097
Financing:						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-135,658	-58,570	-2,097
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				58,570	2,097	
39.0001 Budget authority						

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1994

TPGE 683

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1995 actual	1996 est.	1997 est.	Obligations 1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
00.0101 Major construction				212,049	74,073	48,276
00.0201 Minor construction				652	354	
00.0301 Planning				28,547	2,208	818
00.0401 Supporting activities				6,650	1,200	800
00.9101 Total direct program				247,898	77,835	49,894
10.0001 Total				247,898	77,835	49,894
Financing:						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-409,758	-159,961	-82,126
21.4009 Reprograming from/to prior year budget plan	-1,900					
22.0001 Unobligated balance transferred to other acco	1,900			1,900		
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				159,961	82,126	32,232
39.0001 Budget authority						

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1995

TPGE 684

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1995 actual	1996 est.	1997 est.	Obligations 1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
00.0101 Major construction	458,077			318,416	99,381	20,736
00.0201 Minor construction	8,450			6,284	800	200
00.0301 Planning	49,386			23,983	20,543	4,860
00.9101 Total direct program	515,913			348,683	120,724	25,796
10.0001 Total	515,913			348,683	120,724	25,796
Financing:						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans					-167,230	-46,506
22.0001 Unobligated balance transferred to other acco	-2,600			-2,600		
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				167,230	46,506	20,710
40.0001 Budget authority (Appropriation)	513,313			513,313		

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1996

TPGE 685

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
00.0101 Major construction		551,610			303,443	176,291
00.0201 Minor construction		9,030			7,780	800
00.0301 Planning		26,594			11,756	9,649
00.9101 Total direct program		587,234			322,979	186,740
10.0001 Total		587,234			322,979	186,740
Financing:						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans						-264,255
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans					264,255	77,515
40.0001 Budget authority (Appropriation)		587,234			587,234	

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1997

TPGE 686

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
00.0101 Major construction			550,344			303,916
00.0201 Minor construction			9,328			7,462
00.0301 Planning			43,387			20,304
00.9101 Total direct program			603,059			331,682
10.0001 Total			603,059			331,682
Financing:						
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans						271,377
40.0001 Budget authority (Appropriation)			603,059			603,059

Military Construction, Air Force
Program and Financing (in Thousands of dollars) SUMMARY

TPGE 687

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1995 actual	1996 est.	1997 est.	Obligations 1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
00.0101 Major construction	458,077	551,610	550,344	720,298	587,578	551,316
00.0201 Minor construction	8,450	9,030	9,328	7,736	12,396	8,462
00.0301 Planning	49,386	26,594	43,387	59,202	34,507	35,631
00.0401 Supporting activities				9,180	1,200	800
00.9101 Total direct program	515,913	587,234	603,059	796,416	635,681	596,209
10.0001 Total	515,913	587,234	603,059	796,416	635,681	596,209
Financing:						
Offsetting collections from:						
11.0001 Federal funds(-)				272		
17.0001 Recovery of prior year obligations				-272		
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-746,218	-443,431	-394,984
21.4003 Available to finance new budget plans	-3,029	-8,765		-3,029	-8,765	
21.4009 Reprograming from/to prior year budget plan	-22,285					
22.0001 Unobligated balance transferred to other acco	-700			-700		
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				443,431	394,984	401,834
24.4003 Available to finance subsequent year budget	8,765			8,765		
25.0001 Unobligated balance expiring	11,620			11,620		
39.0001 Budget authority	510,284	578,469	603,059	510,284	578,469	603,059
Budget authority:						
40.0001 Appropriation	510,284	587,234	603,059	510,284	587,234	603,059
40.3601 Appropriation rescinded (unob bal)		-8,765			-8,765	
43.0001 Appropriation (adjusted)	510,284	578,469	603,059	510,284	578,469	603,059
Relation of obligations to outlays:						
71.0001 Obligations incurred				796,688	635,681	596,209
72.1001 Orders on hand, SOY				-733	-635	
72.4001 Obligated balance, start of year				1,190,887	965,488	788,713
74.1001 Orders on hand, EOY				635		
74.4001 Obligated balance, end of year				-965,488	-788,713	-709,004
77.0001 Adjustments in expired accounts (net)				1,097		
78.0001 Adjustments in unexpired accounts				-272		
90.0001 Outlays (net)				1,022,814	811,821	675,918

Military Construction, Air Force
Object Classification (in Thousands of dollars) SUMMARY

Identification code 57-3300-0-1-051	1995 actual	1996 est.	1997 est.
Direct obligations:			
132.001 Land and structures	796,416	635,681	596,209
199.001 Total Direct obligations	796,416	635,681	596,209
999.901 Total obligations	796,416	635,681	596,209
Obligations are distributed as follows:			
Defense-Military:Army	645,581	516,809	488,176
Defense-Military:Navy	94,723	84,482	77,388
Defense-Military:Air Force	46,932	32,483	29,751
Department of Transportation	9,180	1,907	894
Total Obligations	796,416	635,681	596,209

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MAXWELL AIR FORCE BASE, ALABAMA	AIR EDUCATION AND TRAINING COMMAND	0.88

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	997	1673	1582	482	2		1092	46		5,874
b. End FY 2001	966	1606	1579	438	2		1092	46		5,729

7. INVENTORY DATA ($000)

a. Total Acreage: (3,497)	
b. Inventory Total As Of: (30 SEP 95)	214,939
c. Authorization Not Yet In Inventory:	36,470
d. Authorization Requested In This Program:	7,875
e. Authorization Included In Following Program: (FY 1998)	50,900
f. Planned In Next Three Program Years:	14,300
g. Remaining Deficiency:	65,800
h. Grand Total:	390,284

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-844	OFFICER TRAINING SCHOOL (OTS) ACADEMIC FACILITY	5,500 SM	7,875	JUN 95	JUN 96
		TOTAL:	7,875		

9a. Future Projects: Included in the Following Program (FY 1998)

171-844	OTS ACADEMIC FACILITY (COT)	2,400 SM	4,400
610-281	CONSOLIDATED COMPUTER SYSTEMS AND TRAINING FACILITY	6,180 SM	9,300
722-351	OTS DINING FACILITY	2,550 SM	5,900
724-417	REPLACE SQUADRON OFFICER SCHOOL DORMITORIES	162 PN	13,600
724-433	OTS (BOT) STUDENT DORMITORIES	440 PN	17,700
		TOTAL:	50,900

9b. Future Projects: Typical Planned Next Three Years:

724-417	OTS (COT) STUDENT DORMITORIES	180 PN	13,300
740-674	OTS PHYSICAL FITNESS CENTER	465 SM	1,000

10. Mission or Major Functions: Headquarters Air University; Air War College; Air Command and Staff College; Squadron Officer School; Officer Training School; College for Aerospace Doctrine, Research, and Education; Air Force Quality Institute; Ira C Eaker College for Professional - Development; Air Force Historical Research Agency; Headquarters Air Force Reserve Officer Training Corps; Headquarters Civil Air Patrol; Community College of the Air Force; an air base wing with C-21 aircraft; and an Air Force Reserve airlift wing with one C-130 squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MAXWELL AIR FORCE BASE, ALABAMA	OFFICER TRAINING SCHOOL (OTS) ACADEMIC FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.47.22	171-844	PNQS963119	7,875

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
OFFICER TRAINING SCHOOL (OTS) ACADEMIC FACILITY				5,500
ACADEMIC FACILITY	SM	5,500	1,000	(5,500)
SUPPORTING FACILITIES				1,575
UTILITIES	LS			(680)
SITE IMPROVEMENTS	LS			(355)
PAVEMENTS	LS			(300)
COMMUNICATIONS	LS			(240)
SUBTOTAL				7,075
CONTINGENCY (5%)				354
TOTAL CONTRACT COST				7,429
SUPERVISION, INSPECTION AND OVERHEAD (6%)				446
TOTAL REQUEST				7,875
TOTAL REQUEST (ROUNDED)				7,875
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(350)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, masonry walls, sloped architecturally compatible roof, fire protection system, utilities, site improvements and necessary support. Building includes seminar rooms, auditorium, academic offices with prewired workstations, student processing areas, and administrative support areas.
Air Conditioning: 1055 KW.

11. REQUIREMENT: 7,060 SM ADEQUATE: 0 SUBSTANDARD: 5,070 SM
PROJECT: Construct an Officer Training School (OTS) academic facility. (New Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. This project will provide adequate facilities for training Basic Officer Training (BOT) cadets in accordance with projected training increases and OTS curriculum. The Basic Officer Training (BOT) cadet load will increase from 850 in FY95 to 1560 in FY00 due to increases in officer accessions. Basic Officer Training is the OTS commissioning program for line officers. A future project is required for Commissioned Officer Training (COT), also held at OTS, which trains 1700 chaplains, lawyers, medical professionals and other non-line officers, annually.
CURRENT SITUATION: Adequate facilities are not available at Maxwell AFB to support the projected Air Force officer requirement. OTS currently utilizes facilities at two locations, separated by over 15 miles, to conduct academic activities. This leads to an extremely inefficient operation. On Maxwell's main base, OTS uses a portion of the Squadron Officer School (SOS) academic facility and one SOS dormitory. Across town at Gunter Annex, OTS uses a portion of the Senior Non-Commissioned Officer

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

4. PROJECT TITLE	5. PROJECT NUMBER
OFFICER TRAINING SCHOOL (OTS) ACADEMIC FACILITY	PNQS963119

Academy (SNCOA) academic facility. These facilities are not large enough to support the projected increase in OTS production. In addition, the loss of key facilities by both SOS and the SNCOA affects their curriculum and flexibility to respond to mission changes.

IMPACT IF NOT PROVIDED: OTS will not have sufficient academic space resulting in a potential shortfall of qualified Air Force officers. OTS will continue to operate in an inefficient manner. Due to the loss of key facilities, SOS and the SNCOA will continue to be affected.

ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction, and leasing) was done. It indicates new construction is the only option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

4. PROJECT TITLE	5. PROJECT NUMBER
OFFICER TRAINING SCHOOL (OTS) ACADEMIC FACILITY	PNQS963119

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUN 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 DEC 15
(e)	Date Design Complete	96 JUN 26
(2) Basis:		
(a)	Standard or Definitive Design -	
(b)	Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	472
(b)	All Other Design Costs	140
(c)	Total	612
(d)	Contract	432
(e)	In-house	180
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PREWIRED WORK STATIONS	3400	FY1998	350

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
ELMENDORF AIR FORCE BASE, ALASKA	PACIFIC AIR FORCES	1.73

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	795	5973	934				126	383	433	9,644
b. End FY 2001	765	5930	888				126	383	433	9,525

7. INVENTORY DATA ($000)

a. Total Acreage: (13,107)	
b. Inventory Total As Of: (30 SEP 95)	489,506
c. Authorization Not Yet In Inventory:	59,955
d. Authorization Requested In This Program:	21,530
e. Authorization Included In Following Program: (FY 1998)	22,200
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	239,912
h. Grand Total:	833,103

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-111	HANGAR/SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	9,650 SM	19,435	FEB 95	JUN 96
871-183	UPGRADE STORM DRAINAGE SYSTEM	LS	2,095	JAN 95	SEP 96
		TOTAL:	21,530		

9a. Future Projects: Included in the Following Program (FY 1998)

141-181	AIRCRAFT WEATHER SHELTERS PHII	6 EA	12,000
721-315	COPE THUNDER VAQ	4,700 SM	10,200
		TOTAL:	22,200

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Headquarters Alaskan Command; Alaska NORAD Region Headquarters, Headquarters 11th Air Force; a wing with two F-15C/D squadrons, one F-15E squadron, an air control squadron (E-3 aircraft), and an airlift squadron (C-12 and C-130 aircraft). Other major activities include an Air Force Air Intelligency Agency intelligence squadron and a USAF medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	9,100
c. Occupational safety and health:	0
d. Other Environmental:	2,000

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	UPGRADE STORM DRAINAGE SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56P	871-183	FXSB953020	2,095

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE STORM DRAINAGE SYSTEM	LS			1,504
EXCAVATION AND BACKFILL	CM	23,000	13	(299)
24" REINFORCED CONCRETE PIPE	LM	3,050	100	(305)
SOIL REMEDIATION	LS			(900)
SUPPORTING FACILITIES				290
PAVEMENT	SM	2,100	81	(170)
MANHOLES	EA	20	2,000	(40)
CATCH BASINS	EA	20	4,000	(80)
SUBTOTAL				1,794
CONTINGENCY (10%)				179
TOTAL CONTRACT COST				1,973
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				128
TOTAL REQUEST				2,101
TOTAL REQUEST (ROUNDED)				2,095

10. Description of Proposed Construction: Excavate, install pipe and backfill. Cap existing drywells and install manholes, and catch basins. Perform environmental clean up incidental to construction and replace pavement to include all necessary support.

11. REQUIREMENT: As required.
PROJECT: Upgrade storm drainage system. (Current Mission)
REQUIREMENT: This is a Level I environmental compliance requirement. Elmendorf AFB is in violation of Federal law 40 CFR 122 and state law 18 Alaska Administrative Code 72 and 75. Storm runoff must comply with a pending group Environmental Protection Agency (EPA) permit for Air Force facilities under the National Pollutant Discharge Elimination System (NPDES). Areas which could produce contamination must be drained into a storm drainage system to preclude groundwater contamination. State law prohibits the discharge of oil into the waters or onto land of the state of Alaska from nondomestic wastewater sources such as dry wells.
CURRENT SITUATION: The project area is an old aircraft taxiway loop. The taxiway is no longer active, and there are now several industrial facilities located on the loop, including a corrosion control facility and a refueling vehicle parking area. Each of the industrial activities is a potential source of contamination in storm water runoff. Currently the area is drained by approximately 30 dry wells. The dry wells serve as a direct path for any contaminants in the runoff to reach groundwater.
IMPACT IF NOT PROVIDED: The existing storm water drainage system will continue to violate 40 CFR 122 and the pending NPDES permit. The potential for soil and groundwater contamination will remain high. Failure to take corrective action will expose the Air Force to EPA Notices of Violation and potential fines up to $25,000 per day and could create

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
ELMENDORF AIR FORCE BASE, ALASKA	
4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE STORM DRAINAGE SYSTEM	FXSB953020

adverse publicity. Possible litigation could force compliance and remediation.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo and new construction) was done. It indicates there is only one option that will satisfy regulatory requirements. Because of this, a full economic analysis was not performed. A certificate of exception was prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE STORM DRAINAGE SYSTEM	FXSB953020

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JAN 15
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 DEC 15
(e)	Date Design Complete	96 SEP 15
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	90
(b)	All Other Design Costs	120
(c)	Total	210
(d)	Contract	140
(e)	In-house	70
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	HANGAR/SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96P	211-111	FXSB953022R1	19,435

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
HANGAR/SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	SM	9,650		13,440
HANGAR	SM	4,300	2,000	(8,600)
SQUADRON OPERATIONS/AMU	SM	4,250	1,100	(4,675)
WAREHOUSE	SM	1,100	150	(165)
SUPPORTING FACILITIES				3,940
SITE IMPROVEMENTS	LS			(1,780)
PAVEMENTS	LS			(960)
DEMOLITION	SM	1,300	300	(390)
UTILITIES	LS			(810)
SUBTOTAL				17,380
CONTINGENCY (5%)				869
TOTAL CONTRACT COST				18,249
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,186
TOTAL REQUEST				19,435
TOTAL REQUEST (ROUNDED)				19,435
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(400)

10. Description of Proposed Construction: Construct a new two-bay aircraft maintenance hangar with an attached squadron ops/maint facility. Project includes a pre-engineered metal warehouse, parking, road relocation, fire supression system, aircraft apron, demolition of a 1300 SM substandard facility and other supporting facilities.

11. REQUIREMENT: 22,298 SM ADEQUATE: 3,546 SM SUBSTANDARD: 16,572 SM

PROJECT: Construct a new hangar with attached squadron operations/aircraft maintenance unit facility (Sq Ops/AMU). (Current Mission)

REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A facility is needed to support C-130 airlift operations and maintenance under the Objective Wing concept at Elmendorf AFB. Under the Objective Wing concept, the airlift squadron must join aircraft operations and maintenance under a squadron commander. This commander then has control of all assets needed to accomplish the mission resulting in lower operating costs during peacetime. In wartime, this organization is more efficient and effective at sortie generation. Squadron operations must have adequate mission training, flight briefing, squadron administration, system training, and storage space. Adequate and adjacent hangar maintenance facilities are needed for C-130 maintenance work. The facility must support collocated aircraft maintenance and operations activities.

CURRENT SITUATION: An augmented C-130 airlift squadron recently joined with the fighter wing to form an Objective Wing. The squadron is physically located in six geographically separate locations spread over a driving distance of six miles. With current facility constraints, the squadron commander maintains two separate offices and functions are

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
ELMENDORF AIR FORCE BASE, ALASKA	
4. PROJECT TITLE	5. PROJECT NUMBER
HANGAR/SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	FXSB953022R1

dispersed. Command and control, under this scenario and an objective wing type operation, is nearly impossible. In the sortie support function, two geographically separate supply points are now supporting the flightline maintenance function and tool issue. Many manhours are wasted by duplication, as well as other costs associated with shuttling between the two shops. A consolidated squadron ops/maintenance unit would eliminate this situation. The pilots, navigators, engineers, and loadmasters are currently housed in offices in the base library, located 6 miles from the aircraft and flight de-briefing areas, due to the lack of adequate, collocated facilities. Because the airlift squadron is spread out over six facilities throughout the base, command is difficult and none of the benefits of the Objective Wing organization can be realized.

IMPACT IF NOT PROVIDED: This dispersed operations and maintenance organization supporting the tactical airlift will continue to cause operational inefficiencies. Command and control will continue to be a challenge because of inadequate facilities. The increased teamwork effect between maintainers and operators will not be realized. Waste and redundancy will consume valuable resources. The benefits of a composite wing operation will not be possible.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, add/alter and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Block 9 cost estimate is based upon a US Army Corps of Engineers concept design and historical costs for the area. Prices vary from the OSD Pricing guide,however they are deemed accurate by the Corps of Engineers.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ELMENDORF AIR FORCE BASE, ALASKA

4. PROJECT TITLE	5. PROJECT NUMBER
HANGAR/SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	FXSB953022R1

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 FEB 01
(b)	Parametric Cost Estimates used to develop costs	N
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	95 APR 14
(e)	Date Design Complete	96 JUN 15
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	900
(b)	All Other Design Costs	640
(c)	Total	1540
(d)	Contract	30
(e)	In-house	1510
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PRE-WIRED WORKSTATIONS	3400	FY1998	400

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	AIR COMBAT COMMAND	0.96

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	845	4937	1393				81	191	305	7,752
b. End FY 2001	834	4973	1409				81	191	305	7,793

7. INVENTORY DATA ($000)

a. Total Acreage: (10,613)	
b. Inventory Total As Of: (30 SEP 95)	281,217
c. Authorization Not Yet In Inventory:	13,750
d. Authorization Requested In This Program:	9,920
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	37,485
h. Grand Total:	342,372

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-821	CONSOLIDATED MATERIAL PROCESSING FACILITY	4,050 SM	5,590	TURN KEY	
211-175	EC-130 AIRCRAFT MAINTENANCE FACILITY	2,400 SM	4,330	APR 95	AUG 96
		TOTAL:	9,920		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Headquarters 12th Air Force; a wing with two fighter training squadrons responsible for training all A/OA 10 aircrews, one A/OA-10 fighter squadron, two EC-130 electronic combat squadrons, and one EC-130 airborne command and control squadron; an Air Force Reserve HH-60 rescue squadron; an Air National Guard air defense detachment (F-16 aircraft); and Air Force Materiel Command's Aerospace Maintenance and Regeneration Center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	1,500
b. Water pollution:	5,490
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	CONSOLIDATED MATERIAL PROCESSING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.06	141-821	FBNV973502	5,590

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED MATERIAL PROCESSING FACILITY	SM	4,050		3,042
MATERIAL PROCESSING FACILITY	SM	2,800	640	(1,792)
ADMINISTRATIVE/COMPUTER FACILITY	SM	1,250	1,000	(1,250)
SUPPORTING FACILITIES				1,980
UTILITIES	LS			(300)
PAVEMENTS/SITE IMPROVEMENTS	LS			(330)
COMMUNICATIONS SUPPORT	LS			(50)
DEMOLITION/ASBESTOS/LEAD PAINT REMOVAL	SM	6,500	200	(1,300)
SUBTOTAL				5,022
CONTINGENCY (5%)				251
TOTAL CONTRACT COST				5,273
SUPERVISION, INSPECTION AND OVERHEAD (6%)				316
TOTAL REQUEST				5,589
TOTAL REQUEST (ROUNDED)				5,590
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(800)

10. Description of Proposed Construction: Concrete foundation with floor slab on grade, split face CMU walls, sloped metal roof over steel trusses, loading platforms/ramps, communications support, computer support, pavements, utility connections and site improvements. Dispose of twelve existing quonset huts totalling 6,500 square meters containing asbestos and lead paint. Cap utilities and restore sites.
Air Conditioning: 40 KW.

11. REQUIREMENT: 4,050 SM ADEQUATE: 0 SUBSTANDARD: 6,500 SM
PROJECT: Construct a consolidated material processing facility. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A modern facility is required for receiving, classifying, packaging, storing, and shipping aerospace equipment and parts. This project will provide such a facility for the Aircraft Maintenance and Reclamation Center (AMARC) to carryout the mission of reclaiming and salvaging Department of Defense (DoD) weapons systems and components.
CURRENT SITUATION: AMARC material processing activities operate out of twelve quonset huts. Eleven of these buildings were salvaged from the Korean War and have deteriorated beyond economical repair. The twelfth building was built in 1963 to receive, preserve, package, store, and ship aircraft/aerospace system parts and support equipment. This facility is too small to accommodate all the storage and administrative areas needed for the processing function. High value items are stored outside in the open area, risking loss and weather related damage. Operations and Maintenance (O&M) funds required to keep the facility operational are excessive because of inadequate insulation and obsolete HVAC systems. The

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	
4. PROJECT TITLE	5. PROJECT NUMBER
CONSOLIDATED MATERIAL PROCESSING FACILITY	FBNV973502

roof has almost completely failed. Spot repairs are not effective and a complete roof replacement is uneconomical. The administrative function is located in a cramped, poorly ventilated and rat-infested area of the building. Latrines are virtually unuseable and require extensive upgrade.
IMPACT IF NOT PROVIDED: AMARC will have to continue to use this substandard facility, bear excessive O&M costs, and risk property loss and/or damage. Working conditions for building occupants will continue to be deplorable.
ADDITIONAL: This project meets the criteria/scope specified in part II of Military Handbook 1190, "Facility Planning and Design Guide". An economical analysis has been prepared comparing the alternatives of new construction, revitalization, leasing, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. BASE CIVIL ENGINEER: Lt Col Benjamin Anderson, (520) 750-3401.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

4. PROJECT TITLE	5. PROJECT NUMBER
CONSOLIDATED MATERIAL PROCESSING FACILITY	FBNV973502

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 330

(4) Construction Start 97 MAR

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
MATERIAL HANDLING SYSTEM	3080	FY1998	500
PREWIRED WORK STATIONS	3400	FY1998	300

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	EC-130 AIRCRAFT MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.19	211-175	FBNV953008A	4,330

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
EC-130 AIRCRAFT MAINTENANCE FACILITY	SM	2,400	1,300	3,120
SUPPORTING FACILITIES				770
UTILITIES	LS			(250)
SITE IMPROVEMENTS	LS			(100)
PAVEMENTS	LS			(200)
RAMP LIGHTING	EA	2	110,000	(220)
SUBTOTAL				3,890
CONTINGENCY (5%)				195
TOTAL CONTRACT COST				4,085
SUPERVISION, INSPECTION AND OVERHEAD (6%)				245
TOTAL REQUEST				4,330
TOTAL REQUEST (ROUNDED)				4,330

10. Description of Proposed Construction: Concrete footings, floor slab and stem walls; metal exterior walls and roof system. Includes HVAC, fire protection, lighting systems, administrative and equipment storage areas including tool cribs/lockers, and electrically operated hangar doors. Includes POL truck parking, ramp lighting and aircraft tie downs and grounds. Includes utilities, site improvements and all necessary support. Air Conditioning: 88 KW.

11. REQUIREMENT: 7,250 SM ADEQUATE: 4,150 SM SUBSTANDARD: 0
PROJECT: Construct an EC-130 aircraft maintenance facility. (New Mission)
REQUIREMENT: Aircraft maintenance facilities are needed to maintain, repair, inspect and operate/generate new mission EC-130 aircraft. The Petroleum, Oil and Lubricant (POL) truck parking is required to support aircraft refueling. This hangar facility and POL truck parking area are both needed to support the new mission beddown of eight EC-130 aircraft which arrived July, 1994.
CURRENT SITUATION: Insufficient aircraft maintenance space exists at Davis-Monthan AFB to accommodate the maintenance, repair and refueling requirements associated with the additional EC-130 aircraft. Prior to arrival of new mission, two squadrons of EC-130 aircraft (10 aircraft) were assigned to Davis-Monthan AFB. The new mission brought an additional 8 EC-130 aircraft to the installation bringing the total number of assigned aircraft up to 18. Presently, maintenance activities are either conducted outdoors in the harsh Arizona environment or within existing maintenance facilities designated for other assigned aircraft as scheduling permits. This situation creates a need to constantly shuffle aircraft to available maintenance space which is extremely time consuming

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

4. PROJECT TITLE	5. PROJECT NUMBER
EC-130 AIRCRAFT MAINTENANCE FACILITY	FBNV953008A

and inefficient. Operation in this manner causes delays in scheduled aircraft maintenance and repair and adversely impacts daily flying activities and ultimately mission capable rates.

IMPACT IF NOT PROVIDED: The maintenance, repair, and refueling of new mission EC-130 aircraft will continue to be hampered by the lack of required space. Shuffling of aircraft will continue to adversely impact flying activities, aircraft maintenance and mission capable rates. The Davis-Monthan EC-130 mission will continue to be seriously degraded.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options (status quo and new construction) was done. It indicates there is only one option that will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared. prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

4. PROJECT TITLE	5. PROJECT NUMBER
EC-130 AIRCRAFT MAINTENANCE FACILITY	FBNV953008A

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 APR 06
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	95 AUG 01
(e) Date Design Complete	96 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	250
(b) All Other Design Costs	160
(c) Total	410
(d) Contract	
(e) In-house	410
(4) Construction Start	97 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
LITTLE ROCK AIR FORCE BASE, ARKANSAS	AIR COMBAT COMMAND	0.80

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	658	3704	434				468	361	130	5,755
b. End FY 2001	669	3746	440				468	361	130	5,814

7. INVENTORY DATA ($000)

a. Total Acreage: (6,898)	
b. Inventory Total As Of: (30 SEP 95)	191,140
c. Authorization Not Yet In Inventory:	8,050
d. Authorization Requested In This Program:	18,105
e. Authorization Included In Following Program: (FY 1998)	3,400
f. Planned In Next Three Program Years:	6,900
g. Remaining Deficiency:	15,000
h. Grand Total:	242,595

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	C-130 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	9,100 SM	14,045	NOV 94	SEP 96
171-618	C-130 ADD TO AND ALTER FIELD TRAINING FACILITY	2,850 SM	1,525	SEP 94	APR 95
832-266	UPGRADE SANITARY SEWER SYSTEM	LS	2,535	JUL 95	AUG 96
		TOTAL:	18,105		

9a. Future Projects: Included in the Following Program (FY 1998)

149-962	CONTROL TOWER	LS	3,400		
		TOTAL:	3,400		

9b. Future Projects: Typical Planned Next Three Years:

740-674	ADD TO AND ALTER PHYSICAL FITNESS CENTER	5,000 SM	6,900		

10. Mission or Major Functions: An airlift wing with four C-130 squadrons, two of which conduct C-130 training for all DoD components and foreign countries; an Air National Guard airlift group with one C-130 squadron; and the USAF Combat Aerial Delivery School.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	1,500
b. Water pollution:	3,690
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LITTLE ROCK AIR FORCE BASE, ARKANSAS	C-130 ADD TO AND ALTER FIELD TRAINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.15	171-618	NKAK946001	1,525

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-130 ADD TO AND ALTER FIELD TRAINING FACILITY	SM	2,850		1,197
ADDITION	SM	1,250	840	(1,050)
ALTERATION	SM	1,600	92	(147)
SUPPORTING FACILITIES				190
UTILITIES	LS			(80)
PAVEMENTS	LS			(60)
SITE IMPROVEMENTS	LS			(50)
SUBTOTAL				1,387
CONTINGENCY (5%)				69
TOTAL CONTRACT COST				1,456
SUPERVISION, INSPECTION AND OVERHEAD (6%)				87
TOTAL REQUEST				1,543
TOTAL REQUEST (ROUNDED)				1,525

10. Description of Proposed Construction: Concrete foundation and floor slab, structural steel frame, masonry walls, metal roof system and fire protection. Project includes high bay training areas and academic space. Include utilities, site improvements, pavements and all necessary support. Air Conditioning: 352 KW.

11. REQUIREMENT: 3,115 SM ADEQUATE: 265 SM SUBSTANDARD: 1,592 SM
PROJECT: Construct an addition to and alter field training facility. (New Mission)
REQUIREMENT: An adequately sized facility is required to provide on-site specialized technical aircraft maintenance instruction and house aircraft maintenance training devices (MTD) in support of the new C-130H model aircraft. There are currently 14 C-130H model aircraft on station and 189 maintenance personnel assigned to support the aircraft, of which only 40 have been trained by the contractor. Contractor provided training, currently conducted on combat operational aircraft, will expire in January 1996. At that time, Air Force personnel will be responsible for aircraft maintenance training. Little Rock AFB will be responsible for all C-130H maintenance training for the Air Force (active and reserve); estimated annual student training load is 475 personnel.
CURRENT SITUATION: The C-130H will be the primary tactical transport aircraft of the Air Force. Little Rock AFB does not have the required space for the new C-130H MTDs that are scheduled to arrive in January 1996. This requirement was first known in April 1994. All existing facilities on and/or near the base were analyzed for this requirement and it was determined no excess space was available to support this mission. The training requirement resulted from an Air Force directed

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
LITTLE ROCK AIR FORCE BASE, ARKANSAS	
4. PROJECT TITLE	5. PROJECT NUMBER
C-130 ADD TO AND ALTER FIELD TRAINING FACILITY	NKAK946001

re-organization and was not known in time to be included in a previous MILCON program. The following MTDs are scheduled to arrive in Jan 1996; 6 each system familiarization trainers (SFT), 2 each landing gear trainers (LGT), and 2 each integrated systems trainers (IST). Air Force Material Command has spent over $10 million to procure required MTDs. The current work around is accomplished using combat operational C-130H aircraft along with C-130E mockups and trainers. Availability of combat operational aircraft for maintenance training is extremely limited because they are required for operational missions. Operation in this matter seriously degrades C-130H maintenance training mission at Little Rock AFB.

IMPACT IF NOT PROVIDED: Facilities required to conduct C-130H maintenance training will not be available. The new trainers, scheduled for arrival January 1996, will be placed in storage until this facility is provided. The base will not be able to meet it's maintenance training mission. Air Force, Air Force Reserve, and Air National Guard C-130H units will be seriously impacted. Maintenance personnel supporting the fleet of 300 C-130H aircraft will not be adequately trained which will in turn affect the availability of mission capable aircraft.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options (status quo and new construction) was done. It indicates there is only one option that will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE, ARKANSAS

4. PROJECT TITLE	5. PROJECT NUMBER
C-130 ADD TO AND ALTER FIELD TRAINING FACILITY	NKAK946001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	94 SEP 12
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	100%
(d) Date 35% Designed.	94 OCT 15
(e) Date Design Complete	95 APR 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	90
(b) All Other Design Costs	
(c) Total	90
(d) Contract	90
(e) In-house	
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LITTLE ROCK AIR FORCE BASE, ARKANSAS	C-130 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.15	141-753	NKAK963004A	14,045

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-130 SQ OPS/AMU FACILITIES	SM	9,100		9,375
C-130 SQ OPS/AMU FACILITY	SM	4,250	1,000	(4,250)
C-130 SQ OPS/AMU FACILITY	SM	4,300	1,000	(4,300)
PETROLEUM OPERATIONS FACILITY	SM	550	1,500	(825)
SUPPORTING FACILITIES				3,240
TILITIES	LS			(470)
PAVEMENTS	LS			(575)
SITE IMPROVEMENTS	LS			(460)
DEMOLITION	LS			(1,215)
REFUELING VEHICLE PARKING	SM	10,000	52	(520)
SUBTOTAL				12,615
CONTINGENCY (5%)				631
TOTAL CONTRACT COST				13,246
SUPERVISION, INSPECTION AND OVERHEAD (6%)				795
TOTAL REQUEST				14,041
TOTAL REQUEST (ROUNDED)				14,045

10. Description of Proposed Construction: Construct two C-130 squadron operations/AMU and one petroleum operations facilities to include concrete foundation and floor slab, masonry walls, structural steel frame, metal roof system and fire protection. Includes utilities, site improvements, pavements and all necessary support. Includes demolition of eight substandard facilities.
Air Conditioning: 1055 KW.

11. REQUIREMENT: 22,876 SM ADEQUATE: 685 SM SUBSTANDARD: 8,568 SM
PROJECT: Construct two C-130 squadron operations/aircraft maintenance unit (Sq Ops/AMU) facilities and relocate the POL operations and refueler parking. (New Mission)
REQUIREMENT: This project is required to comply with Air Force guidance to build Objective Wing squadrons by combining aircraft operators with flightline maintainers. Facilities are needed to plan, brief and critique combat and flight training crews and to direct flight operations. Administrative space is required for commanders and staff to program and conduct mission briefings and other related command activities. Space is also required to care for, store, and issue flying clothing and equipment. Maintenance shops supporting assigned aircraft must be adjacent to the parking ramps. Areas are required for tools, parts, and a location to manage and control maintenance operations. One of these facilities will require additional space to support C-130 aircraft flight training. One facility will support the 50th Airlift Squadron, which has a worldwide airlift combat support mission. The other facility will support the 53rd Airlift Squadron which has a C-130 aircraft flight training mission.
CURRENT SITUATION: Existing Sq Ops/AMU operations are accomplished in

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
LITTLE ROCK AIR FORCE BASE, ARKANSAS	
4. PROJECT TITLE	5. PROJECT NUMBER
C-130 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	NKAK963004A

undersized, physically separated, and substandard facilities. These facilities have historically been overcrowded, a condition further exasperated with the objective wing squadron unifications. Inefficiencies include fragmented lines of communications/authority, lack of space for mission planning and briefings, inadequate space for equipment storage, deteriorated electrical and mechanical systems, and lack of space for tool cribs, bench stock, flight planning operations, and maintenance. A total of eight facilities (2449 SM) and a parking lot (8858 SM) will be demolished as a result of this project. The deteriorated petroleum operations facility and refueling vehicle parking area will be demolished and relocated to another site to support this project.

IMPACT IF NOT PROVIDED: Operations, maintenance, and support personnel will remain in separated, substandard, and undersized facilities and will never develop the cohesiveness necessary to become an efficient and effective operational organization. The physical separation will continue to hamper the lines of authority and communications throughout the squadrons. Essential squadron operations and logistic functions will continue to require work-arounds that will degrade mission performance. The lack of adequate facilities will impact the ability of the squadrons to train for and accomplish their combat/wartime and training missions.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options (status quo and new construction) was done. It indicates there is only one option that will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE, ARKANSAS

4. PROJECT TITLE	5. PROJECT NUMBER
C-130 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	NKAK963004A

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	94 NOV 02
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	94 NOV 03
(e) Date Design Complete	96 SEP 13
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	POPE
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	668
(b) All Other Design Costs	164
(c) Total	832
(d) Contract	666
(e) In-house	166
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LITTLE ROCK AIR FORCE BASE, ARKANSAS	UPGRADE SANITARY SEWER SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	832-266	NKAK973009	2,535

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE SANITARY SEWER SYSTEM	LS			1,865
REPAIR/REPLACE SANITARY SEWER MAINS	LM	3,300	560	(1,848)
REPAIR/REPLACE MANHOLES	EA	10	1,700	(17)
SUPPORTING FACILITIES				340
UTILITIES	LS			(140)
PAVEMENTS	LS			(120)
SITE IMPROVEMENTS	LS			(80)
SUBTOTAL				2,205
CONTINGENCY (10%)				221
TOTAL CONTRACT COST				2,426
SUPERVISION, INSPECTION AND OVERHEAD (6%)				146
TOTAL REQUEST				2,572
TOTAL REQUEST (ROUNDED)				2,535

10. Description of Proposed Construction: Work includes pipeline rehabilitation (replacement, point repairs, and parallel lines), manhole rehabilitation (frames, covers, sidewalls and base), required utilities, pavements, and site improvements.

11. REQUIREMENT: As required.

PROJECT: Upgrade sanitary sewer system. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. The existing sanitary sewer outfall system requires improvements which will increase its capacity and enable it to transport Little Rock's wastewater to the city of Jacksonville Wastewater Treatment Plant without overloading and causing subsequent overboard discharging of raw sewage.

CURRENT SITUATION: A sanitary sewer outfall line conveys wastewater from Little Rock AFB to the city of Jacksonville for treatment and disposal. The base is currently in non-compliance with the Clean Water Act (CWA), Section 301(a) which states "Except as in compliance with this section..., the discharge of any pollutant by any person shall be unlawful." This gravity sewer line was originally 45cm and 38cm concrete pipe, but many segments have been sliplined (flexible liner installed), some more than once. Three downstream reaches have been reduced to 25cm from multiple sliplining projects. This severely restricts flow, causing the system to back up, resulting in overboard discharges. The outfall receives wastewater from the housing area by a 38cm interceptor and two (38cm and 30cm) interceptors from main base. Numerous defects have been noted and several overflowing manholes have been observed in two separate inspections performed by a private contractor. Differences in flow have been recorded between an upstream monitoring point and the measurements made by the city of Jacksonville for billing purposes. The city

measurements were significantly less than those taken upstream. On December 10, 1994 the difference in flow between the two points was 6.43 million liters less, verifying severe overloading and overboard discharge of raw sewage through manholes into the waters of the United States. On January 18, 1995 an overflow event was measured for 3 hours, clearly in violation of the CWA. Again, on April 11, 1995 another report was sent to the city of Jacksonville documenting an overboard discharge. This work must be accomplished following the FY96 project NKAK963011.

IMPACT IF NOT PROVIDED: Level I violations will continue until both excessive inflow and infiltration at the base are corrected and an adequate outfall line is constructed. Little Rock AFB will continue to be in noncompliance with the CWA by allowing the discharge of raw sewage into the waters of the United States. The base is becoming increasingly vulnerable to the imposition of enforcement action as it continues to remain in noncompliance with discharge permits which could result in the base receiving a Notices of Violation (NOVs) and fines up to $25,000 per day per violationins.

ADDITIONAL: This project will, in concert with FY96 project NKAK963011, correct all of the system problems which contribute to overboard discharges, thus bringing Little Rock AFB into compliance with the CWA. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known effective options were considered during the development of this project. This is the only option which will meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LITTLE ROCK AIR FORCE BASE, ARKANSAS

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE SANITARY SEWER SYSTEM	NKAK973009

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUL 31
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 OCT 15
(e)	Date Design Complete	96 AUG 31
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	110
(b)	All Other Design Costs	18
(c)	Total	128
(d)	Contract	102
(e)	In-house	26
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
BEALE AIR FORCE BASE, CALIFORNIA	AIR COMBAT COMMAND	1.24

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	355	2806	402				20	60	116	3,759
b. End FY 2001	353	2818	402				20	60	116	3,769

7. INVENTORY DATA ($000)

a. Total Acreage: (22,944)	
b. Inventory Total As Of: (30 SEP 95)	190,315
c. Authorization Not Yet In Inventory:	26,950
d. Authorization Requested In This Program:	14,425
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	2,500
g. Remaining Deficiency:	26,814
h. Grand Total:	261,004

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-454	CARS DEPLOYABLE GROUND STATION SUPPORT FACILITY	LS	7,690	APR 95	AUG 96
911-146	LANDFILL CLOSURE	33 HA	6,735	JUN 95	AUG 96
		TOTAL:	14,425		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS	2,500

10. Mission or Major Functions: A Reconnaissance Wing which includes two U-2 reconnaissance squadrons, one of which is responsible for training all U-2 aircrews; a Contigency Airborne Reconnaissance System (CARS); an Air Force Space Command missile warning squadron which operates one of the Phased Array Warning System (Pave PAWS) radars; and an Air Force Reserve Wing with KC-135 aircraft scheduled to arrive as a result of Base Closure action.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	1,500
b. Water pollution:	6,690
c. Occupational safety and health:	0
d. Other Environmental:	5,000

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BEALE AIR FORCE BASE, CALIFORNIA	CARS DEPLOYABLE GROUND STATION SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.51.54	141-454	BAEY961010	7,690

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CARS DEPLOYABLE GROUND STATION SUPPORT FACILITY	LS			5,290
LOGISTICS MAINTENANCE/ADMINISTRATION	SM	2,150	1,400	(3,010)
SUPPLY/MISSION EQUIPMENT STORAGE	SM	1,500	920	(1,380)
TECHNICAL PAD AND ROOF	LS			(900)
SUPPORTING FACILITIES				1,610
UTILITIES	LS			(395)
PAVEMENTS	LS			(370)
SITE IMPROVEMENTS	LS			(570)
FIRE PROTECTION SYSTEM	LS			(275)
SUBTOTAL				6,900
CONTINGENCY (5%)				345
TOTAL CONTRACT COST				7,245
SUPERVISION, INSPECTION AND OVERHEAD (6%)				435
TOTAL REQUEST				7,680
TOTAL REQUEST (ROUNDED)				7,690

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls, structural steel frame and metal roof. Includes parking, site improvements, back-up power and utilities for support center and technical pad. Includes fencing, security lighting, conduit for alarms and closed circuit TV (CCTV) cameras, and a hardened entry control point (ECP).
Air Conditioning: 528 KW.

11. REQUIREMENT: 5,309 SM ADEQUATE: 0 SUBSTANDARD: 1,659 SM
PROJECT: Construct a Contingency Airborne Reconnaissance System (CARS) Deployable Ground Station (DGS) support facility. (New Mission)
REQUIREMENT: A permanent facility of adequate size and configuration is required to support the beddown of the CARS DGS-2 mission, equipment and personnel at Beale AFB. This highly specialized logistics facility is essential to support day-to-day operations and maintenance of the CARS DGS which is capable of collecting, processing and exploiting multi-source intelligence with multi-level security. This system needs to be properly secured, maintained and supported to meet real world deployment taskings. This system is needed to enhance the ability of theater commanders to most effectively manage tactical assets on the battlefield through near-real-time intelligence. Required security systems include boundary security lighting, priority B fencing, conduit to support CCTV cameras, alarm systems, and a hardened entry control point. This requirement supports the beddown of the second of two CARS DGS in the CONUS. Langley AFB is the east coast CARS (DGS-1) location.
CURRENT SITUATION: The CARS DGS-2 system and supporting personnel are housed along the flightline in many inadequate and undersized interim

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BEALE AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
CARS DEPLOYABLE GROUND STATION SUPPORT FACILITY	BAEY961010

facilities which do not meet the required operational and security requirements. These facilities are also required to support the day-to-day operation of the U-2 mission and some have been identified for KC-135 reserve operations under the BRAC 93 announcement. These workarounds have caused existing base missions to occupy less than adequate space to provide CARS interim facilities until permanent facility are provided. There are no other facilities at the installation which can adequately meet the needs of this new mission requirement. A modular building will be leased and used until permanent facilities are provided.
IMPACT IF NOT PROVIDED: CARS is the only system capable of collecting, processing, and exploiting signal intelligence and imagery intelligence with multi-level security. Failure to provide adequate facilities to support this new mission beddown will significantly degrade CARS operational capability to provide theater commanders worldwide with dynamic, responsive, correlated intelligence data for battle field management and execution. Costly and labor intensive workarounds will have to be implemented to meet CARS minimum facility requirements for maintenance, storage, security, and operation while in-garrison.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction, leasing) was done. It indicates there is only one option that will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BEALE AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
CARS DEPLOYABLE GROUND STATION SUPPORT FACILITY	BAEY961010

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 APR 04
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 AUG 01
(e)	Date Design Complete	96 AUG 01
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	420
(b)	All Other Design Costs	180
(c)	Total	600
(d)	Contract	
(e)	In-house	600
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BEALE AIR FORCE BASE, CALIFORNIA	LANDFILL CLOSURE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	911-146	BAEY971014	6,735

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
LANDFILL CLOSURE	HA	33		5,263
GEOMEMBRANE MATERIAL	SM	327,500	5	(1,638)
FOUNDATION MATERIAL	CM	262,500	10	(2,625)
COVER LAYER MATERIAL	CM	100,000	10	(1,000)
SUPPORTING FACILITIES				530
REVEGETATION	LS			(90)
GAS/GROUNDWATER MONITORING AND CONTROL	LS			(105)
DRAINAGE	LS			(330)
FENCE	LS			(5)
SUBTOTAL				5,793
CONTINGENCY (10%)				579
TOTAL CONTRACT COST				6,372
SUPERVISION, INSPECTION AND OVERHEAD (6%)				382
TOTAL REQUEST				6,754
TOTAL REQUEST (ROUNDED)				6,735

10. Description of Proposed Construction: Construct a final cover for Landfill No 2. Provide a foundation layer, a geomembrane of high density polyethylene, a cover layer, and final grading of two percent slope. Install perimeter fencing, surface drainage control, vegetation, and mulch for plant growth. Install five lysimeters to monitor the vadose zone.

11. REQUIREMENT: 33 HA ADEQUATE: 0 SUBSTANDARD: 33 HA

PROJECT: Landfill closure. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. Landfill No 2 must be closed in accordance with California Code of Regulations (CCR) Title 14, Chapter 3. This code requires specific cap and monitoring construction to reduce potential leechate to ground water. CCR Title 14 implements Resource and Recovery Act 40 CFR landfill closure standards. Beale AFB Landfill No 2 is in noncompliance since closure has not been completed within 180 days after ceasing to accept waste per CCR Title 14, Chapter 3.

CURRENT SITUATION: Existing Landfill No 2 requires closure. Landfill No 1 is being closed by the Defense Environmental Restoration Account (DERA); Landfill No 3 is in the FY96 MILCON program; and Landfill No 4 and the Explosive Ordnance Disposal trench are being investigated for closure by the DERA. Beale stopped use of Landfill 2 on 8 October 1993 and is currently using the Yuba-Sutter Disposal, Inc, landfill for solid waste disposal. Landfill No 2 has received notices of violation for failure to complete the required closure plan and for subsidence of 13 hectares of cells. The closure plan was completed July 1995. The Regional Water Quality Control Board issued on 9 March 1994 a draft Waste Discharge Requirements (WDR) order for Beale AFB landfills detailing all closure requirements and timelines. When finalized this year it will fix the

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BEALE AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
LANDFILL CLOSURE	BAEY971014

compliance schedule to satisfy CCR Title 14, Chapter 3. This project will comply with CCR Title 14 and the WDR order schedule.

IMPACT IF NOT PROVIDED: Severe non-compliance fines can be imposed by the State of California. In this case, a fine of up to $25,000 per day can be imposed by the California Regional Water Quality Board if the base does not bring the landfill through to closure. Fines and lawsuits are imminent if we do not take action.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificat of exception has been prepared.

ADDITIONAL: There is no cri eria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BEALE AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
LANDFILL CLOSURE	BAEY971014

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 JUN 01
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	95 AUG 01
(e) Date Design Complete	96 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	200
(b) All Other Design Costs	125
(c) Total	325
(d) Contract	200
(e) In-house	125
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
EDWARDS AIR FORCE BASE, CALIFORNIA	AIR FORCE MATERIEL COMMAND	1.38

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	625	3561	3347				242	390		8,165
b. End FY 2001	572	3191	3219				242	390		7,614

7. INVENTORY DATA ($000)

a. Total Acreage: (300,723)	
b. Inventory Total As Of: (30 SEP 95)	709,346
c. Authorization Not Yet In Inventory:	44,650
d. Authorization Requested In This Program:	20,080
e. Authorization Included In Following Program: (FY 1998)	23,300
f. Planned In Next Three Program Years:	1,500
g. Remaining Deficiency:	102,300
h. Grand Total:	901,176

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-152	RENOVATE AIRCRAFT MAINTENANCE FACILITY	21,500 SM	7,680	MAR 93	JUN 96
311-115	F-22 ALTER AIRCRAFT MAINTENANCE FACILITY	4,180 SM	4,390	MAR 95	AUG 96
317-932	ADD TO AND ALTER ANECHOIC CHAMBER	LS	4,890	FEB 95	JUN 96
821-115	CONVERT BOILERS	31 EA	3,120		
		TOTAL:	20,080		

9a. Future Projects: Included in the Following Program (FY 1998)

311-114	RENOVATE AIRCRAFT MAINTENANCE FACILITY	17,200 SM	10,800		
610-281	CONSOLIDATED SUPPORT FACILITY	5,800 SM	11,200		
831-168	UPGRADE WASTEWATER TREATMENT PLANT	LS	1,300	TURN KEY	
		TOTAL:	23,300		

9b. Future Projects: Typical Planned Next Three Years:

871-183	UPGRADE STORM DRAINAGE SYSTEM	LS	1,500	TURN KEY	

10. Mission or Major Functions: Air Force Flight Test Center for Research and Development which is responsible for flight test activities for all USAF aircraft and related avionics, flight control, and weapons systems; a test wing; an air base wing; Air Force Test Pilot School; and Astronautics Directorate of Phillips Laboratory. Also, a landing site for the space shuttle.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	4,400
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	9,600

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	ADD TO AND ALTER ANECHOIC CHAMBER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
6.58.07	317-932	FSPM953501	4,890

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER ANECHOIC CHAMBER	LS			2,278
ADDITION	SM	70	5,400	(378)
ALTERATION	LS			(1,900)
SUPPORTING FACILITIES				1,920
UTILITIES	LS			(300)
HOIST SUPPORT	LS			(270)
RF SHIELDING	LS			(1,250)
COMMUNICATIONS SUPPORT	LS			(100)
SUBTOTAL				4,198
CONTINGENCY (10%)				420
TOTAL CONTRACT COST				4,618
SUPERVISION, INSPECTION AND OVERHEAD (6%)				277
TOTAL REQUEST				4,895
TOTAL REQUEST (ROUNDED)				4,890

10. Description of Proposed Construction: Install 40 ton hoist and operator cab suspended from anechoic chamber ceiling, including radio frequency (RF) shielding and strengthening of support structure; provide series of fabricated steel structures within facility with concrete foundation and slab. Includes HVAC, vibration/sound attenuation, utilities extension and necessary support.
Air Conditioning: 10 KW.

11. REQUIREMENT: 20,900 SM ADEQUATE: 20,446 SM SUBSTANDARD: 384 SM
PROJECT: Add to and alter an anechoic chamber. (New Mission)
REQUIREMENT: Additional specialized space within the Benefield Anechoic Facility (BAF) is required to provide multiple test capabilities for electronic combat testing of avionics systems for advanced weapon systems such as the F-22, F-117, B-2 and various missiles. Specifically, RF shielded rooms adjacent to the anechoic chamber are needed for angle-of-arrival and far-field radar testing, as well as classified testing to support the Electronic Combat Integrated Test (ECIT) program. The BAF also requires an additional 40 ton hoist to support far-field tests of objects located farther from an antenna array.
CURRENT SITUATION: The existing facility was designed to test the B-1B aircraft and does not provide sufficient capability to accommodate the new ECIT test instrumentation and simulation capabilities associated with the Air Force Flight Center's expanded test requirements to test F-22, F-117, B-2 and various other weapon systems. Existing specialized rooms and laboratory space are insufficient and inadequate to support tests needed to develop and improve current weapon systems technology. The only large hoist in the BAF is located above the center of the chamber where most

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
EDWARDS AIR FORCE BASE, CALIFORNIA	
4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER ANECHOIC CHAMBER	FSPM953501

targets are located for radar image tests. However, this location does not provide sufficient separation from the pulse emitter to perform far-field tests. This project will provide specialized test rooms and a hoist system to permit accomplishment of unique tests which exceed current capabilities.

IMPACT IF NOT PROVIDED: The Air Force will not be able to perform needed electronic testing in ground facilities and will have to resort to more expensive flight tests. This will lead to program slippages, cost overruns, and uncertainties regarding the combat capabilities of new weapon systems.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in the Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared. This is the second phase of a two-phased effort to provide adequate facilities to support ECIT program. Phase I is in FY96 program at $11.1M.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EDWARDS AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER ANECHOIC CHAMBER	FSPM953501

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 FEB 12
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 SEP 29
(e)	Date Design Complete	96 JUN 20
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	200
(b)	All Other Design Costs	241
(c)	Total	441
(d)	Contract	291
(e)	In-house	150
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	RENOVATE AIRCRAFT MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.06	211-152	FSPM903018	7,680

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
RENOVATE AIRCRAFT MAINTENANCE FACILITY	SM	21,500	280	6,020
SUPPORTING FACILITIES				570
UTILITIES	LS			(400)
SITE IMPROVEMENTS	LS			(20)
ASBESTOS REMOVAL	LS			(150)
SUBTOTAL				6,590
CONTINGENCY (10%)				659
TOTAL CONTRACT COST				7,249
SUPERVISION, INSPECTION AND OVERHEAD (6%)				435
TOTAL REQUEST				7,684
TOTAL REQUEST (ROUNDED)				7,680

10. Description of Proposed Construction: Repair or replace water, heating, ventilation, and air conditioning systems, and minor roof repair in the shop area. Correct safety hazards, remove partitions, upgrade lighting and fire protection system, renovate secondary electrical power circuits, panels, and transformers. Include asbestos removal and necessary support.
Air Conditioning: 300 KW.

11. REQUIREMENT: 106,208 SM ADEQUATE: 17,776 SM SUBSTANDARD: 88,432 SM
PROJECT: Renovate an aircraft maintenance facility. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. The Air Force Flight Test Center at Edwards Air Force Base requires an aircraft maintenance facility capable of supporting repairs and maintenance to one-of-a-kind test aircraft. This facility must provide a safe and functional environment for maintenance personnel. Adequate space is required for machine, tire repair, parachute, and sheet metal repair shops. Building systems must provide a reliable and high quality service to support such weapons systems as the C-17 airlifter and F-22 advanced tactical fighter. This facility must also support the maintenance needs of users such as the USAF Test Pilot School and the National Aeronautics and Space Administration (NASA).
CURRENT SITUATION: This aircraft maintenance facility, originally built in the 1950's, has deteriorated to a point where major renovation is required. Over 12,000 man-hours in facility maintenance have been expended since 1992 to keep this facility operational (3,500 hours in 1992, 4,000 hours in 1993, 4,500 hours in 1994). The building's occupants also expended over 15,000 hours in 1993 and 16,000 hours in 1994 through

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EDWARDS AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
RENOVATE AIRCRAFT MAINTENANCE FACILITY	FSPM903018

the self-help program to keep the building operational. This effort will increase as building systems become even older. The combination of aging electrical and mechanical systems and the nonavailability of replacement parts cause frequent systems shutdowns, resulting in aircraft maintenance schedule delays. Power surges affect sensitive instrumentation and computer systems which rely on quality electrical service to provide accurate measurements and analysis. The water lines have corroded to a point where interim repairs no longer ensure leaks will not damage electrical panels.

IMPACT IF NOT PROVIDED: Frequent work stoppages will continue to hamper aircraft maintenance schedules, affecting the testing of weapons programs of national interest. Electrical and mechanical systems failures will increase, placing the safety of workers at risk.

ADDITIONAL: There is no criteria/scope for this project in part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, renovation was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EDWARDS AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
RENOVATE AIRCRAFT MAINTENANCE FACILITY	FSPM903018

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	93 MAR 31
(b)	Parametric Cost Estimates used to develop costs	N
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	93 NOV 10
(e)	Date Design Complete	96 JUN 20
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	380
(b)	All Other Design Costs	307
(c)	Total	687
(d)	Contract	459
(e)	In-house	228
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	CONVERT BOILERS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.80.56	821-115	FSPM973502	3,120

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONVERT BOILERS	EA	31		2,280
CONVERT DIESEL FUEL BOILERS TO GAS	EA	8	70,000	(560)
INSTALL GAS TANKS/LINES/CONTROL	EA	8	100,000	(800)
UPGRADE PROPANE/NATURAL GAS BURNERS	EA	23	40,000	(920)
SUPPORTING FACILITIES				400
UTILITIES	LS			(250)
SITE IMPROVEMENTS	LS			(50)
PAVEMENTS	LS			(100)
SUBTOTAL				2,680
CONTINGENCY (10%)				268
TOTAL CONTRACT COST				2,948
SUPERVISION, INSPECTION AND OVERHEAD (6%)				177
TOTAL REQUEST				3,125
TOTAL REQUEST (ROUNDED)				3,120

10. Description of Proposed Construction: Convert 8 oil-fired boilers to gas-fired systems and upgrade 23 gas-fired burners to meet nitrogen-oxide emission standards. Provide related controls, meters, and service lines. Includes pavements and necessary support.

11. REQUIREMENT: As required.

PROJECT: Convert boilers. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance requirement. This project is required to satisfy Clean Air Act (CAA) requirements promulgated by Kern County Air Pollution Control District Rule 425.2. This rule was adopted on 13 Oct 1994 and will become a Level I environmental compliance requirement on 30 Nov 1997 when compliance become mandatory. This rule requires that all oil-fired boilers and natural gas fired burners comply with stricter emission standards.

CURRENT SITUATION: The 31 largest diesel-fuel boilers and natural gas fired burners at Edwards AFB produce excess nitrogen oxides as a combustion product. These boilers and burners support aircraft dynamic research test facilities, missile/space research facilities, a composite medical facility, a dining hall, and three central steam plants. Under the CAA, these nitrogen oxides emissions are virtually prohibited. In order to meet Kern County emission requirements, the diesel boilers must be converted to gas fired units and the inefficient natural gas fired burners must be upgraded to an acceptable level of nitrogen oxide emissions. The requirement for this project was validated by the Cost of Compliance Study for 1990 Clean Air Act Amendments conducted at Edwards AFB in 1992.

IMPACT IF NOT PROVIDED: If the boilers and burners are not converted or upgraded, the base will face Notices of Violation and potential fines of

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
EDWARDS AIR FORCE BASE, CALIFORNIA	
4. PROJECT TITLE	5. PROJECT NUMBER
CONVERT BOILERS	FSPM973502

up to $25,000 per day per violation. Shutting the heating plants down in the middle of the high desert winter would require the closure of the largest test and evaluation facilities at the Air Force Flight Test Center and bring on-going work to a standstill. Expensive delays to test programs would be incurred.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in the Air Force manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EDWARDS AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
CONVERT BOILERS	FSPM973502

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:

(a) Standard or Definitive Design - NO

(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 200

(4) Construction Start 96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	F-22 ALTER AIRCRAFT MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
6.42.39	311-115	FSPM973503	4,390

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-22 ALTER AIRCRAFT MAINTENANCE FACILITY	SM	4,180		3,459
ALTERATION	SM	3,950	800	(3,160)
ENTRY CONTROL AREA	SM	230	1,300	(299)
SUPPORTING FACILITIES				300
UTILITIES	LS			(200)
SITE IMPROVEMENT	LS			(50)
PAVEMENTS	LS			(50)
SUBTOTAL				3,759
CONTINGENCY (10%)				376
TOTAL CONTRACT COST				4,135
SUPERVISION, INSPECTION AND OVERHEAD (6%)				248
TOTAL REQUEST				4,383
TOTAL REQUEST (ROUNDED)				4,390

10. Description of Proposed Construction: Reconfigure and upgrade the interior of an existing building to provide adequate hangar, shop, office, and laboratory space to accommodate testing of the engineering and manufacturing development (EMD) phase of the F-22 aircraft. Provide entry control and associated security requirements. Includes upgrades to HVAC, utilities and all necessary support.
Air Conditioning: 25 KW.

11. REQUIREMENT: 18,885 SM ADEQUATE: 14,705 SM SUBSTANDARD: 3,950 SM
PROJECT: Alter an F-22 aircraft maintenance facility. (New Mission)
REQUIREMENT: The Air Force Flight Test Center requires secure and modern maintenance and testing facilities to support the testing and development of the engineering and manufacturing development (EMD) phase of the F-22 Advanced Tactical Fighter aircraft. The F-22 program requires special access and security clearances, so all test activities must be collocated in a central and secure area. The test center must integrate aircraft avionics systems into EMD F-22 aircraft, validate manufacturing processes, assess the reliability and maintainability of each subsystem, and assess operational capability of the total weapon system. One EMD F-22 aircraft is projected to arrive in FY96, two in FY97, four in FY98, and the final two in FY99.
CURRENT SITUATION: There is no existing hangar at Edwards AFB that has the proper electrical and mechanical systems to support testing, repairs, calibration, and trouble-shooting of the advanced F-22 instrumentation and avionics systems. The existing administrative space is substandard and inadequate to support the additional personnel. Also the existing facility does not meet special security requirements.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EDWARDS AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
F-22 ALTER AIRCRAFT MAINTENANCE FACILITY	FSPM973503

IMPACT IF NOT PROVIDED: The lack of adequate and secure facilities will cause F-22 program to slip, delay the introduction of this advanced fighter aircraft, and compromise the effectiveness of this crucial weapon system.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, alteration of existing facilities was found to be the most cost efficient over the life of the project. This is the final phase of a three-phased effort to provide facilities for the F-22 EMD program. Phase I in FY95 at $4.55M and Phase II in FY96 at $12.1M.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EDWARDS AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
F-22 ALTER AIRCRAFT MAINTENANCE FACILITY	FSPM973503

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 MAR 10
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 DEC 15
(e)	Date Design Complete	96 AUG 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	200
(b)	All Other Design Costs	197
(c)	Total	397
(d)	Contract	262
(e)	In-house	135
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MCCLELLAN AIR FORCE BASE, CALIFORNIA	AIR FORCE MATERIEL COMMAND	1.14

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	439	2215	8389				225	1105		12,373
b. End FY 2001	433	2023	8068				225	1105		11,854

7. INVENTORY DATA ($000)

a. Total Acreage: (2,952)	
b. Inventory Total As Of: (30 SEP 89)	507,591
c. Authorization Not Yet In Inventory:	137,220
d. Authorization Requested In This Program:	8,795
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	159,000
h. Grand Total:	812,606

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
871-183	FLOOD CONTROL MEASURES	3,400 LM	8,795	JAN 93	DEC 96
		TOTAL:	8,795		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Air Logistics Center responsible for the management and support for F/FB-111, E-3A (AWACS), T-39 and A-10 aircraft, and ground communications-electronics- meteorological (C-E-M) systems. Provides depot level maintenance on above systems except E-3As. Technology Repair Center for ground C-E-M equipment, aircraft fluid-driven hydraulics/pneudraulics systems, and flight control instrumentation. MAC weather-rescue (WC-135, C-130 and helicopters) wing, and airlift (C-21) squadron; HQ 4th AF(AF RESERVE); and a TAC test/evaluation group.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCLELLAN AIR FORCE BASE, CALIFORNIA	FLOOD CONTROL MEASURES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.96	871-183	PRJY923043	8,795

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FLOOD CONTROL MEASURES	LM	3,400	2,000	6,800
SUPPORTING FACILITIES				750
UTILITIES	LS			(250)
PAVEMENTS	LS			(250)
SITE IMPROVEMENTS	LS			(250)
SUBTOTAL				7,550
CONTINGENCY (10%)				755
TOTAL CONTRACT COST				8,305
SUPERVISION, INSPECTION AND OVERHEAD (6%)				498
TOTAL REQUEST				8,803
TOTAL REQUEST (ROUNDED)				8,795

10. Description of Proposed Construction: Reroute and enlarge concrete lined storm drainage channel, including culverts, headwalls, associated appurtenances, and necessary support. Relocate underground utilities as required and extend to and connect with improved Sacramento City system.

11. REQUIREMENT: As required.

PROJECT: Upgrade flood control measures. (Current Mission)

REQUIREMENT: An adequate storm drainage system is needed to collect and convey storm water and other surface run-off to a suitable disposal point (stream, river or other aqueduct). The system at McClellan must be sized to accommodate the heaviest rains in order to avert damage to on-base buildings and warehoused goods valued at over $6.6 billion. This project represents the McClellan Air Force Base portion of a coordinated City of Sacramento flood control project to realign and enlarge one of two streams which run through base property. This project is necessary in the successful privatization and reuse of the base. We need to resolve any reservation private companies might have about flood risks to the base infrastructure. This base is on the BRAC 95 Closure list.

CURRENT SITUATION: The US Army Corps of Engineers has revised projected flow quantities relative to the 100 year flood plain. The 100-year floodplains of Don Julio and Magpie Creeks pass through McClellan AFB property, around the north and south ends of the main runway. The flood threat has increased over the years due to upstream developments. During 100-year flood conditions Magpie Creek would cover a significant portion of the southwestern quadrant of McClellan AFB. The submerged area would have a depth of roughly two feet in the southwest corner, and would flood 2.5 million square feet of on-base buildings including three major warehouse structures.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCLELLAN AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
FLOOD CONTROL MEASURES	PRJY923043

IMPACT IF NOT PROVIDED: Failure to provide this project ignores the fact that billions of dollars in warehoused inventory and millions of square feet of structures both on and off base are endangered by flood waters. Should a 100 year flood occur, a major portion of the southwest sector of the base would flood, causing complete havoc and mission shut-down in these areas.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCLELLAN AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
FLOOD CONTROL MEASURES	PRJY923043

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	93 JAN 04
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	1%
(d)	Date 35% Designed.	96 JUL 10
(e)	Date Design Complete	96 DEC 30
(2) Basis:		
(a)	Standard or Definitive Design -	
(b)	Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	500
(b)	All Other Design Costs	400
(c)	Total	900
(d)	Contract	
(e)	In-house	900
(4) Construction Start		97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
TRAVIS AIR FORCE BASE, CALIFORNIA	AIR MOBILITY COMMAND	1.25

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1380	6901	1898				11	160	188	10,538
b. End FY 2001	1304	6352	1822				11	160	188	9,837

7. INVENTORY DATA ($000)

a. Total Acreage: (6,272)	
b. Inventory Total As Of: (30 SEP 95)	435,470
c. Authorization Not Yet In Inventory:	46,700
d. Authorization Requested In This Program:	7,980
e. Authorization Included In Following Program: (FY 1998)	42,000
f. Planned In Next Three Program Years:	610
g. Remaining Deficiency:	113,800
h. Grand Total:	646,560

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	DORMITORY	96 PN	7,980	NOV 94	JAN 96
		TOTAL:	7,980		

9a. Future Projects: Included in the Following Program (FY 1998)

113-321	REPAIR APRONS	LS	9,600
721-312	DORMITORY	252 PN	10,500
721-312	DORMITORY	192 PN	16,500
740-674	ADD TO PHYSICAL FITNESS CENTER	2,550 SM	5,400
		TOTAL:	42,000

9b. Future Projects: Typical Planned Next Three Years:

811-147	EMERGENCY POWER GENERATOR PLNT	LS	610

10. Mission or Major Functions: Headquarters Fifteenth Air Force; an air mobility wing with two C-5, one C-141, and two KC-10 squadrons; an Air Force Reserve C-5/C-141/KC-10 associate air mobility wing; an Air Mobility Operations group (AMOG); and a major USAF medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	2,500
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TRAVIS AIR FORCE BASE, CALIFORNIA	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	721-312	XDAT963307A	7,980

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (96 PN)	SM	3,150	1,700	5,355
SUPPORTING FACILITIES				1,820
UTILITIES	LS			(425)
SITE IMPROVEMENTS	LS			(290)
PAVEMENTS	LS			(400)
DEMOLITION/ASBESTOS REMOVAL/DISPOSAL	SM	2,350	300	(705)
SUBTOTAL				7,175
CONTINGENCY (5%)				359
TOTAL CONTRACT COST				7,534
SUPERVISION, INSPECTION AND OVERHEAD (6%)				452
TOTAL REQUEST				7,986
TOTAL REQUEST (ROUNDED)				7,980

10. Description of Proposed Construction: Construct a three-story structure with reinforced concrete foundation and floor slabs, masonry walls, roof, and fire protection. Site work to improve drainage and provide appropriately landscaped "green area" within the dorm campus. Includes room-bath-room modules, laundry rooms, storage and lounge areas, campus parking, and support. Includes demolition of one dormitory. Air Conditioning: 265 KW. Grade Mix: 96 E1-E4.
Maximum Utilization: 96 Personnel

11. REQUIREMENT: 2,091 PN ADEQUATE: 900 PN SUBSTANDARD: 987 PN
PROJECT: Construct dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment (CFA) project. It is a major Air Force objective to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform. Extended utility runs, private vehicle parking, and landscaping are required to appropriately complete a new dormitory campus area/green space.
CURRENT SITUATION: There are currently not enough adequate dormitories to meet the billeting requirements of unaccompanied enlisted personnel at this base. A substandard 1954 facility (72 rooms at 2,350 SM) to be demolished as part of this project, does not provide adequate heating and air conditioning, sufficient noise attenuation, or necessary amenities to adequately house personnel. The interior and exterior finishes are worn beyond economical repair.
IMPACT IF NOT PROVIDED: Substandard living conditions will persist

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
TRAVIS AIR FORCE BASE, CALIFORNIA	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	XDAT963307A

degrading morale, productivity, and career satisfaction for unaccompanied enlisted personnel. Excessive energy consumption and maintenance costs will continue if this inefficient and substandard dormitory remains in use.

ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, sending personnel off base paying BAQ/VHA and status quo. Based on the present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

TRAVIS AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	XDAT963307A

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	94 NOV 25
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	95 MAR 31
(e)	Date Design Complete	96 JAN 01
(2) Basis:		
(a)	Standard or Definitive Design -	
(b)	Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	480
(b)	All Other Design Costs	320
(c)	Total	800
(d)	Contract	600
(e)	In-house	200
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
VANDENBERG AIR FORCE BASE, CALIFORNIA	AIR FORCE SPACE COMMAND	1.36

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	634	2344	1156							4,134
b. End FY 2001	616	2274	1102							3,992

7. INVENTORY DATA ($000)

a. Total Acreage: (98,256)	
b. Inventory Total As Of: (30 SEP 95)	1,106,764
c. Authorization Not Yet In Inventory:	32,528
d. Authorization Requested In This Program:	3,290
e. Authorization Included In Following Program: (FY 1998)	81,300
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	65,473
h. Grand Total:	1,289,355

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
312-476	SATELLITE PROCESSING FACILITY	800 SM	3,290	MAY 95	AUG 96
		TOTAL:	3,290		

9a. Future Projects: Included in the Following Program (FY 1998)

171-621	TECHNICAL TRAINING CLASSROOM	12,500 SM	24,000
171-627	SPACE INITIAL QUALIFICATION TRAINING ACADEMIC FACILITY	3,700 SM	10,200
212-213	ADD TO AND ALTER MISSILE MAINTENANCE FACILITY	7,550 SM	9,500
312-476	OPERATIONS CONTROL CENTER	11,000 SM	27,000
442-257	HAZARDOUS MATERIALS STORAGE FACILITY	2,500 SM	2,500
721-312	SPACE INITIAL QUALTIFICATION TRAINING STUDENT DORMITORY	3,500 SM	6,100
833-354	REGIONAL COMPOSTING FACILITY	LS	2,000
		TOTAL:	81,300

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Headquarters Fourteenth Air Force; a space wing with UH-1 aircraft; West Coast space launch and missile test operations; an Air Force Materiel Command detachment of the Space and Missile Systems Center; and an Air Education and Training Command space and missile training group.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	7,000
c. Occupational safety and health:	0
d. Other Environmental:	5,000

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VANDENBERG AIR FORCE BASE, CALIFORNIA	SATELLITE PROCESSING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.59.96	312-476	XUMU945001	3,290

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SATELLITE PROCESSING FACILITY	SM	800	2,600	2,080
SUPPORTING FACILITIES				880
UTILITIES	LS			(400)
PAVEMENTS	LS			(220)
DEMOLITION	SM	2,000	130	(260)
SUBTOTAL				2,960
CONTINGENCY (5%)				148
TOTAL CONTRACT COST				3,108
SUPERVISION, INSPECTION AND OVERHEAD (6%)				186
TOTAL REQUEST				3,294
TOTAL REQUEST (ROUNDED)				3,290

10. Description of Proposed Construction: Concrete slab and foundation, masonry walls, structural steel frame, metal-trussed roof system, raised computer flooring, security system, site improvements and all necessary support. Includes the demolition of three substandard facilities totaling 2000 SM.
Air Conditioning: 175 KW.

11. REQUIREMENT: 2,846 SM ADEQUATE: 2,046 SM SUBSTANDARD: 2,000 SM
PROJECT: Construct a satellite processing facility. (Current Mission)
REQUIREMENT: A permanent, properly sized, Defense Meteorological Satellite Program (DMSP) satellite processing facility is needed to meet security requirements for vital Air Force and DoD missions. This facility will support satellites for DoD and other Federal and commercial activities. This project completes the consolidation of pre-launch processing which began when relocatable facilities were moved onto the site four years ago. The consolidation accomplishes two goals; it locates all functions in one secured area, eliminating the need for establishing two priority B secure areas and also improves the flow of work by placing the satellite control station directly adjacent to the satellite processing facility. Functions which will be performed include command and control, data processing, and secure storage for cryptographic items. The relocatable facilities will be removed at the completion of the facility.
CURRENT SITUATION: Cryptographic support, command and control for pre-launch testing, and orbital support operations are presently housed in a relocatable facility which is over 17 years old and is deteriorating rapidly due to the salt air environment. Roof leaks, modular facility

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
SATELLITE PROCESSING FACILITY	XUMU945001

settling, and foundation deterioration have delayed satellite processing until temporary fixes could be made. This causes interruptions in the processing schedule which can impact launch deadlines. Following structural modifications and additions to the existing facility, all satellite checkout will be accomplished in a single permanent facility. Additionally, current facility conditions do not meet optimum security requirements. Upon completion of this project three facilities totaling 2000 SM will be demolished.

IMPACT IF NOT PROVIDED: DMSP and other payload processing may be impacted to the extent that payloads cannot be processed and launched within the 90-day call for periodic replacement missions. A deferred DMSP mission, due to a launch delay, could cause significant national consequences. In terms of launch costs, the impact of a one day schedule slip of a DMSP space craft is $52,000. Further, if failure occurs on launch day an additional cost of $237,000 is incurred.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option which will meet operational needs. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
SATELLITE PROCESSING FACILITY	XUMU945001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 MAY 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 NOV 01
(e)	Date Design Complete	96 AUG 01
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	180
(b)	All Other Design Costs	82
(c)	Total	262
(d)	Contract	189
(e)	In-house	73
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
BUCKLEY AIR NATIONAL GUARD BASE, COLORADO	AIR NATIONAL GUARD	1.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	80	534	320							934
b. End FY 2001	78	554	329							961

7. INVENTORY DATA ($000)

a. Total Acreage: (3,832)	
b. Inventory Total As Of: (30 SEP 95)	93,042
c. Authorization Not Yet In Inventory:	83,550
d. Authorization Requested In This Program:	17,960
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	11,000
h. Grand Total:	205,552

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
131-132	SPACE BASED INFRARED SYSTEM OPERATIONS FACILITY	4,200 SM	14,460	JUL 95	DEC 96
442-758	BASE SUPPLY AND EQUIPMENT WAREHOUSE	3,700 SM	3,500	TURN KEY	
		TOTAL:	17,960		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Headquarters Colorado Air National Guard; 140th Fighter Wing with F-15C/D; 200th Airlift Squadron with one C-26B and two T-43As; the 16th Intelligence Squadron; and 2nd Space WarningSquadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR NATIONAL GUARD BASE, COLORADO	BASE SUPPLY AND EQUIPMENT WAREHOUSE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.41.11	442-758	CRWU973333	3,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE SUPPLY AND EQUIPMENT WAREHOUSE	SM	3,700	680	2,516
SUPPORTING FACILITIES				575
UTILITIES	LS			(350)
PAVEMENTS	LS			(150)
SITE IMPROVEMENTS	LS			(75)
SUBTOTAL				3,091
CONTINGENCY (5%)				155
TOTAL CONTRACT COST				3,246
SUPERVISION, INSPECTION AND OVERHEAD (6%)				195
TOTAL REQUEST				3,441
TOTAL REQUEST (ROUNDED)				3,500

10. Description of Proposed Construction: Construct a steel framed base supply warehouse and general support area. Includes concrete foundation, floor slab, and all utilities and necessary support.
Air Conditioning: 80 KW.

11. REQUIREMENT: 5,370 SM ADEQUATE: 1,670 SM SUBSTANDARD: 0
PROJECT: Construct a base supply and equipment warehouse. (New Mission)
REQUIREMENT: Adequate storage and support space is required for materials, emergency replacement parts, and equipment for a classified mission at Buckley Air National Guard Base. The storage and support space must be located immediately adjacent to the classified mission for proper response, security, and inventory control.
CURRENT SITUATION: There is only 1,670 square meters of existing warehouse space on Buckley Air National Guard Base which is 100 percent used by the Air National Guard. There is no other excess space available to support the beddown of a new classified mission which becomes operational in 1997. This lack of space will result in the improper and unsecure storage of materials, emergency replacement parts, and equipment; thereby negatively impacting a classified defense mission.
IMPACT IF NOT PROVIDED: Classified materials and equipment would have to be stored in an off-base facility which does not meet mission requirements. Extra manhours would also be required to manage and guard classified materials and equipment if placed off-base. The mission would also be subject to interruption since it would not be possible to quickly retrieve critical replacement parts stored off-base.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
BUCKLEY AIR NATIONAL GUARD BASE, COLORADO	
4. PROJECT TITLE	5. PROJECT NUMBER
BASE SUPPLY AND EQUIPMENT WAREHOUSE	CRWU973333

alternative options were considered during the development of this project. Since none of these alternatives were acceptable and did not meet mission requirements, an economic analysis was neither required, nor performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BUCKLEY AIR NATIONAL GUARD BASE, COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
BASE SUPPLY AND EQUIPMENT WAREHOUSE	CRWU973333

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 210

(4) Construction Start 96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR NATIONAL GUARD BASE, COLORADO	SPACE BASED INFRARED SYSTEM OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
6.44.41	131-132	CRWU973001	14,460

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SPACE BASED INFRARED SYSTEM OPERATIONS FACILITY	SM	4,200	2,200	9,240
SUPPORTING FACILITIES				3,765
UTILITIES	LS			(950)
UNINTERRUPTIBLE POWER SUPPLY	EA	4	68,750	(275)
SITE IMPROVEMENTS	LS			(250)
PAVEMENTS	LS			(350)
HEMP SHIELDING	SM	2,550	761	(1,940)
SUBTOTAL				13,005
CONTINGENCY (5%)				650
TOTAL CONTRACT COST				13,655
SUPERVISION, INSPECTION AND OVERHEAD (6%)				819
TOTAL REQUEST				14,474
TOTAL REQUEST (ROUNDED)				14,460

10. Description of Proposed Construction: Reinforced concrete foundation and floor, structural steel frame and roof system, insulated metal walls, computer access flooring, fire protection, environmental controls, High Energy Electromagnetic Pulse (HEMP) shielding, Sensitive Compartmented Information Facility (SCIF) features, intrusion detection system, Uninterruptible Power Supply (UPS), utilities, and all necessary support. Air Conditioning: 950 KW.

11. REQUIREMENT: 4,200 SM ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a space based infrared system (SBIRS) operations facility. (New Mission)

REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. Provide a secure ground segment facility to house the SBIRS Mission Control Station (MCS). The MCS provides central processing functions for tactical and strategic space-based early warning, battlespace characterization, and technical intelligence gathering requirements. The SBIRS program fuses data from multiple satellite constellations and existing classified ground resources to assess and respond to ballistic missile threats to North America and tactical threats around the world. In addition, SBIRS will correlate data from other satellite and ground sources to provide multi-layered composite ballistic warning and battlespace characterization vital to evaluating accurate threat assessment.

CURRENT SITUATION: The Defense Support Program (DSP) has, for many years, provided strategic early warning and assessment in defense of North America. The system uses 1970's technology which is outdated, expensive to maintain and repair and ineffective for supporting post cold-war

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
BUCKLEY AIR NATIONAL GUARD BASE, COLORADO	
4. PROJECT TITLE	5. PROJECT NUMBER
SPACE BASED INFRARED SYSTEM OPERATIONS FACILITY	CRWU973001

tactical warning. SBIRS will consolidate DSP functional capability at the MCS and close down costly overseas ground stations.

IMPACT IF NOT PROVIDED: Without this operations facility the SBIRS program cannot be supported. Projected O&M savings associated with the SBIRS program will not be realized. Failure to support the SBIRS program will result in continued operations of an outdated DSP system, including costly overseas ground stations, which compromises our ability to accurately assess threats of tactical conflicts around the world and limitsour ability to characterize space oriented vehicles/events and intelligence gathering.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared. The 21st Space Wing at Peterson Air Force Base has programming responsibility for Air Force requirements at Buckley Air National Guard Base.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BUCKLEY AIR NATIONAL GUARD BASE, COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
SPACE BASED INFRARED SYSTEM OPERATIONS FACILITY	CRWU973001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 JUL 12
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	95 DEC 17
(e) Date Design Complete	96 DEC 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	860
(b) All Other Design Costs	445
(c) Total	1305
(d) Contract	860
(e) In-house	445
(4) Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
FALCON AIR FORCE BASE, COLORADO	AIR FORCE SPACE COMMAND	1.11

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	813	1576	369							2,758
b. End FY 2001	759	1760	395							2,914

7. INVENTORY DATA ($000)

a. Total Acreage: (4,102)	
b. Inventory Total As Of: (30 SEP 95)	224,749
c. Authorization Not Yet In Inventory:	1,400
d. Authorization Requested In This Program:	2,095
e. Authorization Included In Following Program: (FY 1998)	29,070
f. Planned In Next Three Program Years:	1,500
g. Remaining Deficiency:	31,212
h. Grand Total:	290,026

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
722-351	ALTER DINING FACILITY	750 SM	2,095	OCT 92	APR 96
		TOTAL:	2,095		

9a. Future Projects: Included in the Following Program (FY 1998)

610-243	OPERATIONAL SUPPORT FACILITY	LS	17,470
610-243	OPERATIONAL SUPPORT FACILITY	4,320 SM	9,000
811-147	REPLACE GENERATORS	LS	2,600
		TOTAL:	29,070

9b. Future Projects: Typical Planned Next Three Years:

740-884	CHILD CARE CENTER	325 SM	1,500

10. Mission or Major Functions: A space wing; the Space Warfare Center; and the National Test Bed Joint Program Office.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

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1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
FALCON AIR FORCE STATION, COLORADO	ALTER DINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.59.96	722-351	GLEN973001	2,095

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DINING FACILITY				1,200
ALTER KITCHEN/SERVING AREAS	SM	750	1,600	(1,200)
SUPPORTING FACILITIES				600
TEMPORARY DINING FACILITY	LS			(115)
TEMPORARY KITCHEN EQUIPMENT RENTAL	LS			(150)
UTILITIES	LS			(100)
SITE IMPROVEMENTS	LS			(55)
SPECIAL SECURITY	LS			(180)
SUBTOTAL				1,800
CONTINGENCY (10%)				180
TOTAL CONTRACT COST				1,980
SUPERVISION, INSPECTION AND OVERHEAD (6%)				119
TOTAL REQUEST				2,099
TOTAL REQUEST (ROUNDED)				2,095

10. Description of Proposed Construction: Relocate the cooking and food preparation areas to provide a safe, functional layout. Install new kitchen and serving equipment. Relocate the dishwashing area and the food storage area. Reconfigure the serving area to include clustering of all attended food service areas. Temporary dining facility, kitchen equipment and utilities. Provide special security and all necessary support. Air Conditioning: 175 KW.

11. REQUIREMENT: As required.
PROJECT: Alter dining facility. (Current Mission)
REQUIREMENT: This is a Commander's Facility Assessment Level I requirement. A safe and functional dining facility is required to support the base population. Reconfiguration of food preparation, serving and eating areas is required to improve safety, work and serving efficiency, traffic flow, and serving time. This dining facility must provide meals 24 hours per day.
CURRENT SITUATION: The existing food preparation and serving areas are a safety hazard. Originally designed to serve 150 meals per hour, this facility is now providing up to 450 meals per hour due to the assignment of additional missions to the base and the associated base population growth. Due to this heavy demand, unsafe conditions have developed. The Safety Office has declared the kitchen a hazardous work area and issued a risk assessment code of 2 II B, defined as a serious risk which will probably occur in time with consequences of permanent partial disability or temporary total disability and property damage ranging from $200K to $1M. Poor layout of the hot line serving area requires servers to transport hot food by cutting across the lines of patrons, causing a

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

FALCON AIR FORCE STATION, COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
ALTER DINING FACILITY	GLEN973001

health and safety hazard. Six cooks have experienced second degree burns as a result of the conditions in the food preparation and cooking areas. The existing refrigerated and dry goods storage area is undersized and located in the basement. All supplies of incoming food must be transported downstairs for storage, then back upstairs for preparation. Inadequate storage space necessitates four or five commissary trips each week. The existing serving area is heavily congested, poorly laid out, and extremely inefficient. Customers must visit several serving counters to obtain a complete meal, and this creates cross-flow traffic congestion. This congestion causes collisions between patrons, food spillage and burns. Due to poor facility configuration, long lines form at the cash register and check-out areas which impede the orderly movement of the serving lines.

IMPACT IF NOT PROVIDED: Lack of a safe working environment will continue to result in injuries to dining facility personnel and possibly patrons. The potential for serious burn injuries will continue. The efficiency of the dining facility workforce will continue to be degraded because of the congested conditions in the food preparation and serving areas. The storage and handling of food will continue to be inadequate and inefficient. The quality of service will continue to be below acceptable levels and productivity will remain degraded due to facility deficiencies.

ADDITIONAL: This project meets the criteria/scope specified in Part II of the Military Handbook 1190, "Facilities Planning and Design Guide". A preliminary analysis of reasonable options which could achieve this requirement were done. It indicates there is only one option which will meet operational needs. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

FALCON AIR FORCE STATION, COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
ALTER DINING FACILITY	GLEN973001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	92 OCT 14
(b) Parametric Cost Estimates used to develop costs	N
(c) Percent Complete as of Jan 1996	60%
(d) Date 35% Designed.	95 MAY 26
(e) Date Design Complete	96 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	100
(b) All Other Design Costs	58
(c) Total	158
(d) Contract	100
(e) In-house	58
(4) Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
PETERSON AIR FORCE BASE, COLORADO	AIR FORCE SPACE COMMAND	1.06

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1181	1961	1499				8	7		4,656
b. End FY 2001	1120	1967	1467				8	7		4,569

7. INVENTORY DATA ($000)

a. Total Acreage: (1,278)	
b. Inventory Total As Of: (30 SEP 95)	184,458
c. Authorization Not Yet In Inventory:	24,530
d. Authorization Requested In This Program:	20,720
e. Authorization Included In Following Program: (FY 1998)	19,900
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	32,262
h. Grand Total:	281,870

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
610-249	MISSION SUPPORT FACILITY	8,500 SM	12,370	MAR 95	NOV 96
721-312	DORMITORY	160 PN	8,350	APR 95	SEP 96
		TOTAL:	20,720		

9a. Future Projects: Included in the Following Program (FY 1998)

610-284	UNIFIED COMMAND HEADQUARTERS	2,450 SM	4,700
721-312	ADD TO AND ALTER DORMITORY	134 PN	3,400
721-312	DORMITORY	422 PN	11,800
		TOTAL:	19,900

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Headquarters United States Space Command; Headquarters Air Force Space Command; Headquarters North American Air Defense Command; Space and Warning Systems Center; a space wing with C-21 aircraft; the Air Force Materiel Command Space Systems Support Group; and an Air Force Reserve airlift wing with one C-130 squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PETERSON AIR FORCE BASE, COLORADO	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.59.96	721-312	TDKA963002	8,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (160 PN)	SM	5,500	1,200	6,600
SUPPORTING FACILITIES				905
UTILITIES	LS			(450)
SITE IMPROVEMENTS	LS			(155)
PAVEMENTS	LS			(300)
SUBTOTAL				7,505
CONTINGENCY (5%)				375
TOTAL CONTRACT COST				7,880
SUPERVISION, INSPECTION AND OVERHEAD (6%)				473
TOTAL REQUEST				8,353
TOTAL REQUEST (ROUNDED)				8,350

10. Description of Proposed Construction: Construct a three-story structure with reinforced concrete foundation and floor slabs, masonry walls, roof and fire protection. Includes room-bath-room modules, laundries, storage and lounge areas, and all necessary support. Air Conditioning: 525 KW. Grade Mix: 160 E1-E4.
Maximum Utilization: 160 Personnel

11. REQUIREMENT: 1,319 PN ADEQUATE: 420 PN SUBSTANDARD: 456 PN
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commanders' Facility Assessment requirement. It is a major Air Force objective to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters that provide a suitable degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform. Peterson AFB supports both Cheyenne Mountain AFB and Falcon AFB with unaccompanied enlisted housing.
CURRENT SITUATION: The base has insufficient facilities to accommodate the unaccompanied enlisted personnel housing requirement. The deficit partially results from a recent increase in Wing manning due to realignment and consolidation of Space Command functions at Peterson AFB. Off-base housing is not a viable option for junior enlisted personnel. Vacancy rates in Colorado Springs average 2.5 percent, and the average rental rate for one-bedroom units begin at $500 per month. This exceeds the housing allowances (Basic Allowance for Quarters (BAQ) and Variable Housing Allowance (VHA)) for E-4 airmen by over $100. For E-1 through E-3 unaccompanied enlisted personnel the shortfall in housing allowances increases dramatically.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
PETERSON AIR FORCE BASE, COLORADO	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	TDKA963002

IMPACT IF NOT PROVIDED: Substandard living conditions will persist degrading morale, productivity, and career satisfaction for unaccompanied enlisted personnel. This problem is further compounded by the non-availability of affordable off-base housing.
ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Fire protection systems for this project meet new standards established in MIL-HDBK 1008B, "Fire Protection for Facilities."

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

PETERSON AIR FORCE BASE, COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	TDKA963002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 APR 24
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 OCT 27
(e)	Date Design Complete	96 SEP 15
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	495
(b)	All Other Design Costs	240
(c)	Total	735
(d)	Contract	465
(e)	In-house	270
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PETERSON	MISSION SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.59.96	610-249	TDKA973004	12,370

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MISSION SUPPORT FACILITY	SM	8,500	1,200	10,200
SUPPORTING FACILITIES				920
UTILITIES	LS			(320)
SITE IMPROVEMENTS	LS			(350)
PAVEMENTS	LS			(250)
SUBTOTAL				11,120
CONTINGENCY (5%)				556
TOTAL CONTRACT COST				11,676
SUPERVISION, INSPECTION AND OVERHEAD (6%)				701
TOTAL REQUEST				12,377
TOTAL REQUEST (ROUNDED)				12,370
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,800)

10. Description of Proposed Construction: Steel reinforced concrete foundation, masonry and steel framed structure, roof system, and fire protection. Includes vehicle parking, utilities, pre-wired workstations and all necessary support.
Air Conditioning: 875 KW.

11. REQUIREMENT: 8,500 SM ADEQUATE: 0 SUBSTANDARD: 7,492 SM
PROJECT: Construct a mission support facility. (Current Mission)
REQUIREMENT: This is a Commander's Facility Assessment Level I requirement. A permanent facility is needed to accommodate activities supporting personnel and missions assigned to the Peterson area complex which includes Peterson, Falcon and Cheyenne Mountain AFBs. The 21st Support Group provides civil engineering, communications, security police, personnel and services support to all Space Command and 21st Space Wing units located around the world. The 21st Mission Support Squadron supports military and civilian personnel within the Peterson Complex. This function also services personnel assigned to HQ North America Air Defense (NORAD), US Space Command (USSPACECOM) and HQ USAF Space Command. Other 21st Space Wing organizations requiring adequate space include the Judge Advocate, Financial Management function, Air Force Office of Special Investigation (AFOSI).
CURRENT SITUATION: These functions have been housed in leased temporary (modular) facilities since 1987; the facilities have exceeded their economic life span. These modulars are rapidly deteriorating and the lease has been renewed several times. The current lease costs the government $660,000 per year. This project is in accordance with the Deputy Assistant Secretary of the Air Force (Installations) directive to

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

PETERSON

4. PROJECT TITLE	5. PROJECT NUMBER
MISSION SUPPORT FACILITY	TDKA973004

reduce the number of relocatable (temporary) facilities on Air Force installations.

IMPACT IF NOT PROVIDED: The 21st Space Wing personnel will continue to work in substandard relocatable facilities with numerous deficiencies that impede productivity and detract from customer service and quality in the work place. The government will continue to pay $660,000 per year for a substandard temporary facility. Personnel will continue to be exposed to poor air quality, inefficient heating and ventilation systems, inadequate electrical power, and abnormal fire hazards associated with temporary wood-frame facilities.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

PETERSON

4. PROJECT TITLE	5. PROJECT NUMBER
MISSION SUPPORT FACILITY	TDKA973004

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 MAR 05
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 DEC 20
(e)	Date Design Complete	96 NOV 15
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	740
(b)	All Other Design Costs	556
(c)	Total	1296
(d)	Contract	864
(e)	In-house	432
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PREWIRED WORK STATIONS	3400	FY1999	1800

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
UNITED STATES AIR FORCE ACADEMY, COLORADO	UNITED STATES AIR FORCE ACADEMY	1.06

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1051	1111	1919		182		21	4000		8,284
b. End FY 2001	1041	1086	1884		182		21	4000		8,214

7. INVENTORY DATA ($000)

a. Total Acreage: (53,446)	
b. Inventory Total As Of: (30 SEP 95)	356,841
c. Authorization Not Yet In Inventory:	49,330
d. Authorization Requested In This Program:	10,065
e. Authorization Included In Following Program: (FY 1998)	17,000
f. Planned In Next Three Program Years:	13,600
g. Remaining Deficiency:	36,490
h. Grand Total:	483,326

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-853	UPGRADE ACADEMIC FACILITY	22,000 SM	10,065	JUL 95	SEP 96
		TOTAL:	10,065		

9a. Future Projects: Included in the Following Program (FY 1998)

171-853	UPGRADE ACADEMIC FACILITY	23,000 SM	9,500
740-253	FAMILY SUPPORT CENTER	850 SM	2,100
740-674	ADD TO AND ALTER PHYSICAL FITNESS CENTER	5,800 SM	5,400
		TOTAL:	17,000

9b. Future Projects: Typical Planned Next Three Years:

610-284	RENOVATE MAJOR COMMAND HEADQUARTERS	8,400 SM	9,000
724-433	ADD TO AND ALTER PREP SCHOOL DORMITORIES	3,300 SM	4,600

10. Mission or Major Functions: Responsible for providing education and training for cadets to become Air Force officers and includes a T-41/T-3 flying training squadron; three flying training squadrons; glider aircraft; and an air base wing.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
UNITED STATES AIR FORCE ACADEMY, COLORADO	UPGRADE ACADEMIC FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.58.96	171-853	XQPZ920111	10,065

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE ACADEMIC FACILITY	SM	22,000	340	7,480
SUPPORTING FACILITIES				1,155
ASBESTOS REMOVAL/DISPOSAL	LS			(1,155)
SUBTOTAL				8,635
CONTINGENCY (10%)				864
TOTAL CONTRACT COST				9,499
SUPERVISION, INSPECTION AND OVERHEAD (6%)				570
TOTAL REQUEST				10,069
TOTAL REQUEST (ROUNDED)				10,065

10. Description of Proposed Construction: Upgrade first and second floor laboratories, class/laboratory support areas, fire detection/protection, handicap provisions, hazardous material storage, ventilation, and electrical distribution. Includes interior demolition/construction, interior finishes, fire rated doors, electrical, HVAC distribution realignment, equipment, asbestos removal and other necessary support. Air Conditioning: 1400 KW.

11. REQUIREMENT: 102,785 SM ADEQUATE: 6,633 SM SUBSTANDARD: 75,296 SM
PROJECT: Upgrade an academic facility. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. The first & second floors of Fairchild Hall, the Academy's primary academic facility, require significant upgrade. Essential fire, safety and health elements are required. Proper storage for hazardous materials, exitways, utility chases, and smoke barriers are necessary for a safe academic environment. Additional academic laboratories and classrooms will be provided by reconfiguring space after functions move into the completed Consolidated Education and Training (CETF) facility, an FY91/FY92 MILCON project under construction & scheduled for May 96 completion. This will allow more space for today's computer-driven, technologically oriented curriculum. Classrooms and labs must be consolidated to improve space use and program efficiency.
CURRENT SITUATION: The first & second floors of Fairchild Hall do not meet current life safety, building code, OSHA, EPA, DoD, Air Force, and higher education facilities standards. The facility has received no major upgrades since originally constructed in 1958 except for an addition in 1968 when the cadet wing increased from 2,500 to 4,400 cadets. The

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

UNITED STATES AIR FORCE ACADEMY, COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE ACADEMIC FACILITY	XQPZ920111

existing six story facility does not have fire protected stairwells, fire rated doors throughout, safe "refuge" areas for handicapped during a fire, or sufficient emergency lighting for safe egress during power outages. Lack of space required to support the increasingly technical curriculum has seriously jeopardized the Academy's ability to satisfy academic accreditation requirements. Student laboratory workstations are too small and many are located in converted storage areas. The addition of computer work centers has added further to the ventilation system deficiencies. Poor lighting, the inability to accommodate current technology support equipment, and lack of sufficient classroom and lab space have degraded the learning environment and the ability of the Academy to meet mission requirements. The cadet wing reduction from 4,400 to 4,000 cadets in 1995 will not affect the requirement for this project.

IMPACT IF NOT PROVIDED: Without this project, environmental safety and building code discrepancies will continue to restrict lab experiments and to jeapordize the safety of occupants. Room temperatures will remain high (80-90 degrees F) in computer work centers and laboratories because of the inadequate and outdated mechanical and electrical systems. Laboratories and classrooms will continue to operate inefficiently. Combined with the space shortages, this situation will continue to seriously impact the quality of education and training for future Air Force officers.

ADDITIONAL: There are no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide." However, this project does meet the criteria specified in Air Force Manual 86-2, "Standard Facility Requirements." An economic analysis has been prepared comparing the alternatives of new construction, revitalization and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

UNITED STATES AIR FORCE ACADEMY, COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE ACADEMIC FACILITY	XQPZ920111

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUL 14
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 NOV 12
(e)	Date Design Complete	96 SEP 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	400
(b)	All Other Design Costs	497
(c)	Total	897
(d)	Contract	716
(e)	In-house	181
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
DOVER AIR FORCE BASE, DELAWARE	AIR MOBILITY COMMAND	1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	375	3525	1101				66	227	15	5,309
b. End FY 2001	364	3294	1071				66	227	15	5,037

7. INVENTORY DATA ($000)

a. Total Acreage: (3,857)	
b. Inventory Total As Of: (30 SEP 95)	213,937
c. Authorization Not Yet In Inventory:	43,200
d. Authorization Requested In This Program:	7,980
e. Authorization Included In Following Program: (FY 1998)	22,900
f. Planned In Next Three Program Years:	26,650
g. Remaining Deficiency:	17,000
h. Grand Total:	331,667

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN START	DESIGN CMPL
141-232	C-5 AERIAL DELIVERY FACILITY	LS		7,980	FEB 96	JAN 97
		TOTAL:		7,980		

9a. Future Projects: Included in the Following Program (FY 1998)

141-753	SQUADRON OPERATIONS FACILITY	2,900	SM	6,500
721-312	DORMITORY	350	PN	4,400
724-417	VISITING OFFICERS QUARTERS	3,800	SM	12,000
		TOTAL:		22,900

9b. Future Projects: Typical Planned Next Three Years:

121-122	REPAIR HYDRANT FUELING SYSTEM		LS	16,000
130-142	FIRE/CRASH RESCUE STATION	1,450	SM	2,300
141-454	SPECIAL OPERATIONS	2,000	SM	2,650
610-249	WING HEADQUARTERS FACILITY	700	SM	1,200
721-312	UNACCOMPANIED ENLISTED HSG	300	PN	4,500

10. Mission or Major Functions: An airlift wing with two C-5 squadrons; and an Air Force Reserve C-5 associate airlift wing.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	1,600
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DOVER AIR FORCE BASE, DELAWARE	C-5 AERIAL DELIVERY FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.19	141-232	FJXT973010	7,980

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-5 AERIAL DELIVERY FACILITY	LS			5,908
AERIAL DELIVERY FACILITY	SM	3,250	1,400	(4,550)
MUNITION STORAGE FACILITY	SM	500	680	(340)
LAND ACQUISITION FOR DROP ZONE	LS			(1,018)
SUPPORTING FACILITIES				1,260
UTILITIES	LS			(320)
PAVEMENTS	LS			(710)
SITE IMPROVEMENTS	LS			(200)
SECURE OPEN STORAGE	LS			(30)
SUBTOTAL				7,168
CONTINGENCY (5%)				358
TOTAL CONTRACT COST				7,526
SUPERVISION, INSPECTION AND OVERHEAD (6%)				452
TOTAL REQUEST				7,978
TOTAL REQUEST (ROUNDED)				7,980

10. Description of Proposed Construction: Single story steel framed facility and high bay warehouse w/reinforced concrete foundation and floor slab, masonry walls w/brick veneer, sloped metal roof, fire protection, and support utilities. Includes space for parachute packing, rigging of supplies for air drop, pallet buildup/storage, classrooms, administration and storage. Also includes land acquisition for drop zone.
Air Conditioning: 20 KW.

11. REQUIREMENT: 3,750 SM ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct a C-5 aerial delivery facility. (New Mission)
REQUIREMENT: Beddown construction is required to support the new C-5 mission "Strategic Brigade Airdrop" per Under Secretary of Defense Acquisition Decision Memorandum (ADM) (3 Nov 95). An adequately sized, configured, and sited facility is needed for the production of air drop loads; parachute rigging, repair, inspection, and drying; storage of air transportable training material and cargo; squadron administration and supply; and maintaining qualification and training of air drop aircrews. Renovation of an existing igloo (bldg 1277) is required to provide adequate storage for 2,016 flares the C-5 uses for defensive countermeasures. Land acquisition is required to provide a drop zone to support airdrop training and ensure C-5 airdrop capability as directed in the C-17/NDAA ADM.
CURRENT SITUATION: There are no facilities on Dover AFB which could be upgraded to meet the needs of the Mobile Aerial Port Squadron. The existing munition storage igloos provide inadequate protection from weather and moisture for the storage of flares.
IMPACT IF NOT PROVIDED: The Mobile Aerial Port Squadron will be unable to

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

DOVER AIR FORCE BASE, DELAWARE

4. PROJECT TITLE	5. PROJECT NUMBER
C-5 AERIAL DELIVERY FACILITY	FJXT973010

generate sufficient air drop platforms to perform the Strategic Brigade Airdrop resulting in mission failure.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the scope/criteria specified in Air Force Handbook (AFH) 32-1084, "Standard Faciltiy Requirements Handbook".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

DOVER AIR FORCE BASE, DELAWARE

4. PROJECT TITLE	5. PROJECT NUMBER
C-5 AERIAL DELIVERY FACILITY	FJXT973010

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	96 JAN 26
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	1%
(d)	Date 35% Designed.	96 JUL 30
(e)	Date Design Complete	97 JAN 31
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	380
(b)	All Other Design Costs	300
(c)	Total	680
(d)	Contract	490
(e)	In-house	190
(4)	Construction Start	97 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
EGLIN AIR FORCE BASE, FLORIDA	AIR FORCE MATERIEL COMMAND	0.87

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1362	6083	3521				55	276		11,297
b. End FY 2001	1354	6082	3097				55	276		10,864

7. INVENTORY DATA ($000)

a. Total Acreage: (453,584)	
b. Inventory Total As Of: (30 SEP 95)	422,539
c. Authorization Not Yet In Inventory:	11,850
d. Authorization Requested In This Program:	4,590
e. Authorization Included In Following Program: (FY 1998)	6,800
f. Planned In Next Three Program Years:	5,400
g. Remaining Deficiency:	71,800
h. Grand Total:	522,979

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
812-223	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	LS	4,590	TURN KEY	
		TOTAL:	4,590		

9a. Future Projects: Included in the Following Program (FY 1998)

812-223	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	LS	6,800	
		TOTAL:	6,800	

9b. Future Projects: Typical Planned Next Three Years:

211-152	ALTER GENERAL PURPOSE AIRCRAFT MAINTENANCE SHOP	8,200 SM	3,500	
211-159	ALTER CORROSION CONTROL FACILITY	1 EA	1,900	

10. Mission or Major Functions: Air Force Development Test Center; a test wing; an air base wing; an Air Combat Command fighter wing with three F-15 squadrons; the USAF Air Warfare Center with F-15 and F-16 aircraft; and an Air Force Special Operations Command HC-130 special operations squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	5,400
b. Water pollution:	1,200
c. Occupational safety and health:	1,900
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.06	812-223	FTFA963022	4,590

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	LS			3,100
ELECTRICAL DISTRIBUTION LINES	LS			(2,100)
SUBSTATIONS	LS			(1,000)
SUPPORTING FACILITIES				840
SUPPORT STRUCTURES	LS			(490)
SITE RESTORATION	LS			(350)
SUBTOTAL				3,940
CONTINGENCY (10%)				394
TOTAL CONTRACT COST				4,334
SUPERVISION, INSPECTION AND OVERHEAD (6%)				260
TOTAL REQUEST				4,594
TOTAL REQUEST (ROUNDED)				4,590

10. Description of Proposed Construction: Replace and upgrade electrical transmission and distribution systems, replace and upgrade regulators, transmission lines, wooden H-frame structures, power poles, substation transformers, switch gear, site restoration, and all necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade an electrical distribution system. (Current Mission)

REQUIREMENT: This is a Level 1 Commander's Facility Assessment requirement. Adequate and reliable electrical service is required to support all missions assigned to Eglin Air Force Base. Repairs and upgrades must be made to substations, transmission lines, and supporting structures which have deteriorated. The electrical system must also comply with the current National Electrical Safety Code standards.

CURRENT SITUATION: The 30-year old electrical distribution system serving the Eglin AFB complex has deteriorated badly and is showing signs of failure. Most of the wooden poles and support structures have rotted. In mid 1993, a major electrical transmission support structure failed and collapsed. Major repairs are needed now to ensure distribution lines, transformers, substations, and other components can continue to handle required capacities. Old switchgears and regulators must be replaced and capacity at one substation be increased to support existing missions. Maintenance and repairs to the system are time consuming and drain base operations and maintenance funds--over $600,000 in manhours and materials were expended in 1994 to maintain the existing system. The unreliable electrical distribution system negatively impacts mission accomplishment and quality of life.

IMPACT IF NOT PROVIDED: Continued deterioration and failure of transmission lines, supporting poles, transformers, substations and

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EGLIN AIR FORCE BASE, FLORIDA

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	FTFA963022

switching devices will negatively impact unit mission capability and quality of life for assigned personnel.

ADDITIONAL: All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
EGLIN AIR FORCE BASE, FLORIDA	
4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	FTFA963022

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 262

(4) Construction Start 96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
EGLIN AUXILIARY FIELD NO 9, FLORIDA	AIR FORCE SPECIAL OPERATIONS COMMAND	0.87

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1345	5844	3520		17		617	549	73	11,965
b. End FY 2001	1339	5841	3106		19		617	549	73	11,544

7. INVENTORY DATA ($000)

a. Total Acreage: (6,634)	
b. Inventory Total As Of: (30 SEP 95)	135,024
c. Authorization Not Yet In Inventory:	7,829
d. Authorization Requested In This Program:	6,825
e. Authorization Included In Following Program: (FY 1998)	10,500
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	160,178

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
724-417	TRANSIENT PERSONNEL QUARTERS	100 PN	6,825	MAR 95	JUN 96
		TOTAL:	6,825		

9a. Future Projects: Included in the Following Program (FY 1998)

149-962	CONTROL TOWER	375 SM	2,100
179-511	FIRE TRAINING FACILITY	1 EA	1,900
721-312	DORMITORY	130 PN	6,500
		TOTAL:	10,500

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: HQ Air Force Special Operations Command; a special operations wing with AC-130/MC-130/MH-53/MH-60 special operations squadrons; Air Force Special Operations School; a special tactics group; Air Combat Command's command and control evaluation group; a RED HORSE squadron; and the Joint Warfare Center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AUX FIELD 9, FLORIDA	TRANSIENT PERSONNEL QUARTERS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96	724-417	FTEV943009	6,825

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
TRANSIENT PERSONNEL QUARTERS (100 PN)	SM	5,500	960	5,280
SUPPORTING FACILITIES				870
UTILITIES	LS			(200)
SITE IMPROVEMENTS	LS			(80)
PAVEMENTS	LS			(150)
DEMOLITION	SM	2,100	100	(210)
ASBESTOS REMOVAL	SM	2,100	110	(230)
SUBTOTAL				6,150
CONTINGENCY (5%)				308
TOTAL CONTRACT COST				6,458
SUPERVISION, INSPECTION AND OVERHEAD (6%)				387
TOTAL REQUEST				6,845
TOTAL REQUEST (ROUNDED)				6,825

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, and sloped metal roof. Functional areas will include bedrooms, kitchens, bathrooms, and exterior entrances. Includes fire protection, utilities, parking, and all necessary support. Demolish one substandard facility totalling 2,100 SM
Air Conditioning: 425 KW. Grade Mix: 60 O1-O2; 40 E5-E9.
Maximum Utilization: 100 Personnel

11. REQUIREMENT: 332 PN ADEQUATE: 120 PN SUBSTANDARD: 111 PN
PROJECT: Construct a transient personnel quarters. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. Adequate living quarters are required to accommodate TDY personnel at Eglin Aux Field 9. HQ AFSOC is located at Eglin Aux Field 9 drawing large numbers of officers, NCO's and distinguished visitors to the installation. Additionally, the installation is home for the USAF Battlestaff Training School war game facility, Air Ground Operation School (AGOS), USAF Special Operations School (SOS) and hosts numerous mission rehearsals. These schools and mission rehearsals bring a tremendous volume of transient personnel to the installation generating a significant demand for temporary quarters.
CURRENT SITUATION: Eglin Aux Field 9 has a severe shortage of adequate transient quarters available to accommodate visiting officers and non-commissioned officers. The lack of adequate on-base quarters forces transient personnel to find lodging off base. An average of 101 personnel stay in contract quarters or are issued non-availability authorizations daily. This results in an annual cost of $1,290,275 based on $35 per day for off-base quarters. The availability and cost of off-base quarters fluctuates dramatically because of the tourist based economy. During the

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EGLIN AUX FIELD 9, FLORIDA

4. PROJECT TITLE	5. PROJECT NUMBER
TRANSIENT PERSONNEL QUARTERS	FTEV943009

tourist season adequate off-base quarters, at reasonable prices, are difficult or impossible to find. The problem is further compounded by the increasing air crew training for AFSOC crews as new weapons systems are received. One substandard facility totaling 2100 SM will be demolished upon comletion of this project.

IMPACT IF NOT PROVIDED: Large numbers of transient personnel will continue to be housed off base. Over $1 million per year will continue to be expended for contract quarters. Forced use of off-base quarters will have an adverse affect on training and mission rehearsal activities and will degrade morale, productivity and the career satisfaction of transient personnel.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis been prepared comparing the alternatives of new construction and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Fire protection systems for this project meet new standards established in MIL-HDBK 1008B, "Fire Protection for Facilities."

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EGLIN AUX FIELD 9, FLORIDA

4. PROJECT TITLE	5. PROJECT NUMBER
TRANSIENT PERSONNEL QUARTERS	FTEV943009

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 MAR 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	95 JUN 01
(e)	Date Design Complete	96 JUN 01
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	BARKSDAL
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	220
(b)	All Other Design Costs	30
(c)	Total	250
(d)	Contract	160
(e)	In-house	90
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
PATRICK AIR FORCE BASE, FLORIDA	AIR FORCE SPACE COMMAND	0.98

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	461	1798	1080							3,339
b. End FY 2001	447	1732	1080							3,259

7. INVENTORY DATA ($000)

a. Total Acreage: (2,341)	
b. Inventory Total As Of: (30 SEP 95)	158,431
c. Authorization Not Yet In Inventory:	7,700
d. Authorization Requested In This Program:	2,595
e. Authorization Included In Following Program: (FY 1998)	22,800
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	19,743
h. Grand Total:	211,269

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
149-962	CONTROL TOWER	LS	2,595	MAY 93	NOV 94
		TOTAL:	2,595		

9a. Future Projects: Included in the Following Program (FY 1998)

141-783	AIR FREIGHT/PASSENGER TERMINAL BASE OPERATIONS FACILITY	4,700 SM	6,200
219-946	BASE ENGINEER COVERED STORAGE	600 SM	600
442-758	BASE SUPPLY/TRAFFIC MANAGEMENT COMPLEX	16,000 SM	12,000
831-165	SEWAGE TREATMENT & DISPOSAL	LS	4,000
		TOTAL:	22,800

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A space wing; the Air Force Technical Applications Center; an Air Combat Command HH-60 rescue squadron and an an HC-130 rescue squadron; and an Air Force Reserve HH-60/HC-130 rescue squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	4,000
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PATRICK AIR FORCE BASE, FLORIDA	CONTROL TOWER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.51.14	149-962	SXHT880702	2,595

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONTROL TOWER	LS			1,860
SUPPORTING FACILITIES				470
UTILITIES	LS			(130)
PAVEMENTS	LS			(140)
SITE IMPROVEMENTS	LS			(60)
COMMUNICATIONS SUPPORT	LS			(75)
ELECTRONIC EQUIPMENT RELOCATION	LS			(65)
SUBTOTAL				2,330
CONTINGENCY (5%)				117
TOTAL CONTRACT COST				2,447
SUPERVISION, INSPECTION AND OVERHEAD (6%)				147
TOTAL REQUEST				2,594
TOTAL REQUEST (ROUNDED)				2,595

10. Description of Proposed Construction: Reinforced concrete foundation, floor slabs, and walls with glass for observation cab, utilities and necessary support. Includes control cab, mechanical and electrical with back-up power generator, electronic equipment rooms, communications support, and administrative and training areas. Air Conditioning: 105 KW.

11. REQUIREMENT: 1 LS ADEQUATE: 0 SUBSTANDARD: 1 LS
PROJECT: Construct a control tower. (Current Mission)
REQUIREMENT: This is a Commander's Facility Assessment Level I requirement. A new air traffic control tower is required to control aircraft operating within the Patrick AFB air traffic area. An adequate control tower is required to support over 60,000 takeoffs and landings each year. Full visibility of the traffic patterns and airfield surfaces is required to enable the air traffic controllers to ensure flight safety as well as ground safety of aircraft and vehicles on the airfield.
CURRENT SITUATION: The existing tower was constructed in 1945 as an integral part of a hangar. The facility is in extremely deteriorated condition and has exceeded its useful life expectancy. The tower location does not allow complete visibility of the overhead pattern when the instrument runway is in use. Visibility of the approach end is limited creating a significant safety hazard as controllers cannot see vehicles or aircraft operating in that area. The existing facility is located less than 100 yards from the ocean thus continuously exposed to the extremely harsh coastal elements. The cost to maintain the structure is increasing due to cracking, spalling and rusting of the structural steel reinforcment caused by continuos exposure to coastal climate. Upon completion of this

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

PATRICK AIR FORCE BASE, FLORIDA

4. PROJECT TITLE	5. PROJECT NUMBER
CONTROL TOWER	SXHT880702

project the existing control tower which is integeral part of a hangar will be demolished as part of a future MILCON project which replaces this hangar.

IMPACT IF NOT PROVIDED: The risk of a catastrophic aircraft accident and associated loss of life will continue. Overcrowded cab conditions will continue to limit air traffic controller mobility and efficiency and will prevent the installation of modern equipment. Flight safety, as well as airfield ground safety, will remain significantly impaired due to the limited visibility of the approach end of the runway and the complete lack of visibility of certain parts of the traffic pattern. The existing control tower will continue to deteriorate as the coastal environment erodes the internal structural components to the point of complete failure.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide", nor in Air Force Manual 86-2, "Standard Facility Requirements". The scope for this project was established in accordance with the Air Force Design Guide for Air Traffic Control Towers. A preliminary analysis of reasonable options which could achieve this requirement were done. It indicates there is only one option which will meet operational needs. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

PATRICK AIR FORCE BASE, FLORIDA

4. PROJECT TITLE	5. PROJECT NUMBER
CONTROL TOWER	SXHT880702

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	93 MAY 01
(b)	Parametric Cost Estimates used to develop costs	N
(c)	Percent Complete as of Jan 1996	100%
(d)	Date 35% Designed.	93 OCT 07
(e)	Date Design Complete	94 NOV 30
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	EGLIN
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	140
(b)	All Other Design Costs	107
(c)	Total	247
(d)	Contract	
(e)	In-house	247
(4) Construction Start		96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
ROBINS AIR FORCE BASE, GEORGIA	AIR FORCE MATERIEL COMMAND	0.95

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	764	3296	10614				5	14		14,693
b. End FY 2001	996	4173	9520				5	14		14,708

7. INVENTORY DATA ($000)

a. Total Acreage: (8,722)	
b. Inventory Total As Of: (30 SEP 95)	542,303
c. Authorization Not Yet In Inventory:	95,250
d. Authorization Requested In This Program:	18,645
e. Authorization Included In Following Program: (FY 1998)	30,400
f. Planned In Next Three Program Years:	106,300
g. Remaining Deficiency:	105,000
h. Grand Total:	897,898

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN START	STATUS CMPL
121-122	JSTARS ADAL AIRCRAFT APRON/ HYDRANT FUELING SYSTEM		LS	6,585	JUL 95	MAY 96
141-753	JSTARS SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC		LS	8,270	JUL 95	JUN 96
211-111	JSTARS ADAL AIRCRAFT MAINTENANCE HANGAR SHOPS		LS	1,645	JUL 95	MAY 96
740-884	JSTARS CHILD DEVELOPMENT CENTER		LS	2,145	JUL 95	MAY 96
		TOTAL:		18,645		

9a. Future Projects: Included in the Following Program (FY 1998)

211-154	DEPOT PLANT SERVICES COMPLEX	8,500	SM	12,400
211-154	DEPOT PLANT SERVICES FACILITY	8,000	SM	10,800
740-674	PHYSICAL FITNESS CENTER	2,000	SM	3,100
740-674	PHYSICAL FITNESS CENTER	2,000	SM	4,100
		TOTAL:		30,400

9b. Future Projects: Typical Planned Next Three Years:

211-152	DEPOT AIRCRAFT MAINTENANCE FACILITY	16,000	SM	23,000
211-152	GENERAL PURPOSE ACFT MAINT	16,000	SM	23,000
211-152	INTEGRATED AIRCRAFT SYSTEMS MAINTENANCE FACILITY	170,000	SF	16,500
211-159	ALTER DEPOT CORROSION CONTROL FACILITY		LS	1,800
610-127	ADD TO AND ALTER BASE ENGINEER COMPLEX	2,900	SM	3,450

10. Mission or Major Functions: Warner Robins Air Logistics Center which is responsible for logistics management, support, and depot-level maintenance of F-15, C-130, and C-141 aircraft, helicopters, missiles, and remotely piloted vehicles; HQ AFRES; an air base wing; an AMC air refueling wing with one KC-135 squadrons; an ACC combat communications group; an Air National Guard bomb wing with B-1 aircraft has been announced; and the main operating base for the Joint Surveillance and Target Attack Radar System (JSTARS) aircraft.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
ROBINS AIR FORCE BASE, GEORGIA	AIR FORCE MATERIEL COMMAND	0.95

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

a.	Air pollution:	6,000
b.	Water pollution:	0
c.	Occupational safety and health:	0
d.	Other Environmental:	1,800

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	JSTARS ADAL AIRCRAFT APRON/ HYDRANT FUELING SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
6.47.70 TIARA	121-122	UHHZ973008	6,585

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JSTARS ADAL AIRCRAFT APRON/HYDRANT FUELING SYSTEM	LS			4,906
HYDRANT FUEL SYSTEMS	EA	10	394,600	(3,946)
APRON	SM	6,000	160	(960)
SUPPORTING FACILITIES				740
UTILITIES	LS			(430)
SITE IMPROVEMENTS	LS			(310)
SUBTOTAL				5,646
CONTINGENCY (10%)				565
TOTAL CONTRACT COST				6,211
SUPERVISION, INSPECTION AND OVERHEAD (6%)				373
TOTAL REQUEST				6,584
TOTAL REQUEST (ROUNDED)				6,585

10. Description of Proposed Construction: Expand fuel hydrant system by adding 5 booster pump stations, associated fuel line laterals and 10 new hydrants. Add to and alter the existing apron and relocate ramp lighting for JSTARS E-8 aircraft. Provide utility support for installation of security systems. Includes site improvements, utilities and all necessary support.

11. REQUIREMENT: 16 EA ADEQUATE: 6 EA SUBSTANDARD: 0

PROJECT: Add to and alter Joint Surveillance Target Attack Radar System (JSTARS) aircraft apron and hydrant fueling system. (New Mission)

REQUIREMENT: An adequately sized and configured aircraft parking apron along with an environmentally safe fuel distribution system is required to support beddown of the JSTARS mission. The JSTARS hydrant fuel system requirement is divided into three phases which will provide a total of 16 fuel hydrants. The first phase, a FY93 project, provided apron space and the basic fuel distribution system with pumping capacity and fuel hydrants capable of supporting the first six aircraft. This phase (phase II) will provide the additional 10 hydrant positions required. The Air Force is scheduled to receive a total of 6 E-8 aircraft by the end of FY97 and will receive two additional aircraft each subsequent fiscal year until a total of 19 aircraft are on station.

CURRENT SITUATION: Sufficient apron space and fuel hydrant support does not exist to support the beddown of all JSTARs aircraft. The existing apron is sized for the smaller KC-135 aircraft and cannot accommodate the larger E-8 aircraft and comply with airfield safety criteria for parking and taxiing. The existing fuel distribution system does not have the capacity needed to support the entire JSTARS mission. Expansion of the hydrant fuel system and parking apron is required to support the

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

4. PROJECT TITLE	5. PROJECT NUMBER
JSTARS ADAL AIRCRAFT APRON/ HYDRANT FUELING SYSTEM	UHHZ973008

additional 13 JSTARS aircraft included in the total beddown of 19 aircraft.

IMPACT IF NOT PROVIDED: The base will not be able to adequately support the beddown of JSTARS aircraft. Adequate apron space and hydrant fuel distribution systems will not be available for new mission aircraft. Failure to maintain each aircraft in a safe and ready state will adversely affect the combat mission capability of the Air Force, Army, and Allied battle units.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A preliminary analysis of reasonable options (status quo, add to and alteration) was done. It indicates there are no other options that will meet operational requirements. Therefore a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

4. PROJECT TITLE	5. PROJECT NUMBER
JSTARS ADAL AIRCRAFT APRON/ HYDRANT FUELING SYSTEM	UHHZ973008

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUL 15
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	95 SEP 30
(e)	Date Design Complete	96 MAY 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	350
(b)	All Other Design Costs	40
(c)	Total	390
(d)	Contract	293
(e)	In-house	97
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	JSTARS SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
6.47.70 TIARA	141-753	UHHZ973005	8,270

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JSTARS SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT FAC	SM	5,300		6,360
SQUADRON OPERATIONS FACILITY	SM	2,800	1,200	(3,360)
AIRCRAFT MAINTENANCE UNIT FACILITY	SM	2,500	1,200	(3,000)
SUPPORTING FACILITIES				1,055
UTILITIES	LS			(350)
PAVEMENTS	LS			(380)
SITE IMPROVEMENTS	LS			(325)
SUBTOTAL				7,415
CONTINGENCY (5%)				371
TOTAL CONTRACT COST				7,786
SUPERVISION, INSPECTION AND OVERHEAD (6%)				467
TOTAL REQUEST				8,253
TOTAL REQUEST (ROUNDED)				8,270
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(500)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls with maintenance free exterior surfaces, structural steel frame, metal roof system, connection to the central chilled water plant, security system, pavements, site improvements, utilities and necessary support.
Air Conditioning: 1055 KW.

11. REQUIREMENT: 12,050 SM ADEQUATE: 6,750 SM SUBSTANDARD: 0
PROJECT: Construct a Joint Surveillance Target Attack Radar System (JSTARS) squadron operations/aircraft maintenance unit (Sq Ops/AMU). (New Mission)
REQUIREMENT: This facility is required to support the second of two JSTARS squadrons to be assigned at Robins AFB. The second squadron is projected to stand-up in 1998. This project is necessary to comply with Air Force guidance to develop Objective Wing squadrons; combining aircraft operators and flightline maintainers in a single complex to improve communication, efficiency and ultimately readiness. Consolidated, adequately sized, and functionally laid out space is required for operations and aircraft maintenance management support, briefings, flight planning, standardization and evaluation, training and testing, locker rooms, flying/ground safety, tool rooms, bench stock, mobility office, scheduling, and a technical order library.
CURRENT SITUATION: Robins AFB is the Main Operating Base for JSTARS and will be supporting 19 Joint Stars E-8 aircraft. Three E-8 aircraft are scheduled for delivery in FY96 and three more in FY97. Beginning in FY98, the base will receive 2 additional aircraft per year until all 19 are acquired. There are no existing facilities available to support the

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

4. PROJECT TITLE	5. PROJECT NUMBER
JSTARS SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	UHHZ973005

beddown of the second JSTARS squadron. Facilities for the first JSTARS squadron were provided with a FY94 MILCON project.

IMPACT IF NOT PROVIDED: The base will not be able to adequately support the beddown of JSTARS aircraft. Squadron operations and aircraft maintenance functions associated with the additional E-8 aircraft cannot be accommodated until this project is complete. Failure to support this requirement will jeopardize the overall beddown and readiness of the JSTARS mission and will adversely affect the combat mission capability of the Air Force, Army, and Allied battle units.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options (status quo and new construction) was done. It indicates there is only one option that will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

4. PROJECT TITLE	5. PROJECT NUMBER
JSTARS SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	UHHZ973005

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUL 15
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	95 SEP 30
(e)	Date Design Complete	96 JUN 30
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	ROBINS
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	490
(b)	All Other Design Costs	52
(c)	Total	542
(d)	Contract	406
(e)	In-house	136
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PRE-WIRED WORKSTATIONS	3400	1998	500

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	JSTARS ADAL AIRCRAFT MAINTENANCE HANGAR SHOPS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
6.47.70 TIARA	211-111	UHHZ973010	1,645

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JSTARS ADAL AIRCRAFT MAINTENANCE HANGAR SHOPS	LS			1,358
ADD AIRCRAFT MAINTENANCE HANGAR SHOPS	SM	550	760	(418)
ALTER HANGAR MECHANICAL SYSTEMS	LS			(940)
SUPPORTING FACILITIES				60
SITE IMPROVEMENTS	LS			(25)
UTILITIES	LS			(10)
PAVEMENTS	LS			(25)
SUBTOTAL				1,418
CONTINGENCY (10%)				142
TOTAL CONTRACT COST				1,560
SUPERVISION, INSPECTION AND OVERHEAD (6%)				94
TOTAL REQUEST				1,654
TOTAL REQUEST (ROUNDED)				1,645

10. Description of Proposed Construction: Alter existing hangar space, consisting of upgrade of laminar flow and humidity control systems. Add aircraft shop space and administrative support space. Includes extension of existing aircraft access pavement and all necessary support.

11. REQUIREMENT: 11,845 SM ADEQUATE: 8,036 SM SUBSTANDARD: 0

PROJECT: Add to and alter Joint Surveillance Target Attack Radar System (JSTARS) aircraft maintenance hangar shops. (New Mission)

REQUIREMENT: Aircraft maintenance space is required to support beddown of the JSTARS mission at Robins AFB. The additional space will support JSTARS airframe maintenance and metal fabrication activities. The existing hangar will serve as the JSTARS corrosion control facility and requires an adequate air handling system to safely filter volatile organic compounds and to create optimum airflow for paint application.

CURRENT SITUATION: The existing aircraft maintenance shops and associated support are sized to support the first six JSTARS aircraft (scheduled to be on station by the end of FY97). At that point the existing shops will be operating at maximum capacity and will require expansion to support the additional 13 JSTARS aircraft included in the beddown. In addition, the existing JSTARS aircraft corrosion control facility environmental (mechanical) systems do not meet minimum standards and require upgrade to provide required humidity control and laminar flow. An outyear project is programmed to provide the additional required JSTARS aircraft maintenance hangar space.

IMPACT IF NOT PROVIDED: The base will not be able to adequately support the beddown of JSTARS aircraft. Adequate aircraft maintenance space will not be available to support JSTARS aircraft. The existing shops will be used at maximum capacity but will not be able to meet the increased

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
ROBINS AIR FORCE BASE, GEORGIA	
4. PROJECT TITLE	5. PROJECT NUMBER
JSTARS ADAL AIRCRAFT MAINTENANCE HANGAR SHOPS	UHHZ973010

maintenance demands brought on by the arrival of additional aircraft. Failure to maintain aircraft in a safe and ready state will adversely affect the combat mission capability of the Air Force, Army, and Allied battle units.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An outyear project is programmed to provide the additional required space.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

4. PROJECT TITLE	5. PROJECT NUMBER
JSTARS ADAL AIRCRAFT MAINTENANCE HANGAR SHOPS	UHHZ973010

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUL 15
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	95 SEP 30
(e)	Date Design Complete	96 MAY 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	95
(b)	All Other Design Costs	62
(c)	Total	157
(d)	Contract	110
(e)	In-house	47
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	JSTARS CHILD DEVELOPMENT CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
6.47.70 TIARA	740-884	UHHZ973024	2,145

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JSTARS CHILD DEVELOPMENT CENTER	LS			1,516
CHILD DEVELOPMENT CENTER	SM	1,100	1,300	(1,430)
EXTERIOR WALLS	LS			(86)
SUPPORTING FACILITIES				375
UTILITIES	LS			(150)
PAVEMENTS	LS			(75)
SITE IMPROVEMENTS	LS			(150)
SUBTOTAL				1,891
CONTINGENCY (5%)				95
TOTAL CONTRACT COST				1,986
SUPERVISION, INSPECTION AND OVERHEAD (6%)				119
TOTAL REQUEST				2,105
TOTAL REQUEST (ROUNDED)				2,145
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(275)

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, structural steel frame, and roof system. Project includes exterior walls and playground area, fire protection, site improvements, pavements, utilities, and all necessary support.
Air Conditioning: 106 KW.

11. REQUIREMENT: 3,126 SM ADEQUATE: 1,700 SM SUBSTANDARD: 326 SM
PROJECT: Construct a Joint Surveillance Target Attack Radar System (JSTARS) child development center. (New Mission)
REQUIREMENT: This facility requirement is in accordance with the military Child Care Act of 1989. Child development services are required for 118 dependent children associated with the beddown of the Joint Surveillance Target Attack Radar System (JSTARS) mission at Robins AFB. A properly sized and functionally configured child development center is required to provide supervised care and development experience for children ages six weeks through twelve years, including all preschool activities. A second child development center is needed at Robins to comply with the DoD directive establishing the maximum number of children (305) a single facility can support. Adequate child care facilities must be provided to accommodate the special requirements placed on military families and single parents. The programs offered must provide professional care, operate during nonstandard hours, provide for services on an hourly, daily, or part-time basis, and provide early developmental care for children. This project only satisfies the JSTARS driven requirement.
CURRENT SITUATION: This project is needed to satisfy the additional child care demand which will result from the JSTARS beddown (118 children). The increase in personnel associated with this new mission will almost double

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
ROBINS AIR FORCE BASE, GEORGIA	
4. PROJECT TITLE	5. PROJECT NUMBER
JSTARS CHILD DEVELOPMENT CENTER	UHHZ973024

the present base military population. The existing child development center is adequate to accommodate a maximum of 240 children. Daily attendance at the center averages 240, or 100 percent. At the present time, 104 children are on the waiting list. The increase in personnel associated with the JSTARS beddown results in a total base child development center requirement of 462 children. Homecare is at maximum usage. Local facilities in the private sector are not only costly, particularly for junior enlisted members and civilian technicians, but also distant from the base. This presents a hazardous situation for parents who transport their children to and from off-base facilities during periods of inclement weather and heavy traffic. Additionally, this creates undue personal and financial hardship for working parents due to the extra trips and expensive fees. These conditions force many parents to either quit work, hire an expensive sitter, or place their children with unqualified people.

IMPACT IF NOT PROVIDED: Lack of quality child care contributes to employee absenteeism and low morale, and has a negative impact on the military and civilian workforces. Personnel will be forced to find alternate, more expensive and unaccredited child care services off the installation. This inability to provide safe and worry-free child care and preschool activities will cause unnecessary stress and financial hardship to those personnel who require these services. Some families will not be able to find affordable child care services, forcing parents to place their children with unlicensed people.

ADDITIONAL: This project meets the criteria/scope specified in part II of Military Handbook 1190, "Facilities Planning and Design Guide" and DoDI 6060.2, "Child Development Center Programs", published in January 1993. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction, leasing) was done. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROBINS AIR FORCE BASE, GEORGIA

4. PROJECT TITLE	5. PROJECT NUMBER
JSTARS CHILD DEVELOPMENT CENTER	UHHZ973024

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUL 15
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	95%
(d)	Date 35% Designed.	95 SEP 30
(e)	Date Design Complete	96 MAY 30
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	SHAW
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	125
(b)	All Other Design Costs	80
(c)	Total	205
(d)	Contract	144
(e)	In-house	61
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
CHILD DEV CTR EQUIPMENT	3400	FY1997	275

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MOUNTAIN HOME AIR FORCE BASE, IDAHO	AIR COMBAT COMMAND	1.15

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	385	3150	451				15	39	47	4,087
b. End FY 2001	381	3174	447				15	39	47	4,103

7. INVENTORY DATA ($000)

a. Total Acreage: (6,700)	
b. Inventory Total As Of: (30 SEP 95)	200,102
c. Authorization Not Yet In Inventory:	15,950
d. Authorization Requested In This Program:	6,545
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	53,330
h. Grand Total:	275,927

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
130-142	FLIGHTLINE FIRE STATION	2,950 SM	6,545	AUG 94	JUL 96
		TOTAL:	6,545		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A composite wing with one F-16 squadron, one F-15C/D squadron, one F-15E squadron, one KC-135R squadron, and a geographically separated unit with B-1B aircraft at Ellsworth AFB, SD (transfer to Mountain Home AFB at a time to be determined).

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	11,990
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MOUNTAIN HOME AIR FORCE BASE, IDAHO	FLIGHTLINE FIRE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96C	130-142	QYZH953004	6,545

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FLIGHTLINE FIRE STATION	SM	2,950	1,500	4,425
SUPPORTING FACILITIES				1,450
UTILITIES	LS			(190)
PAVEMENTS	SM	10,000	36	(360)
SITE IMPROVEMENTS	LS			(400)
FIRE PROTECTION SYSTEM	SM	2,950	68	(200)
DEMOLITION/ASBESTOS REMOVAL/DISPOSAL	SM	1,500	200	(300)
SUBTOTAL				5,875
CONTINGENCY (5%)				294
TOTAL CONTRACT COST				6,169
SUPERVISION, INSPECTION AND OVERHEAD (6%)				370
TOTAL REQUEST				6,539
TOTAL REQUEST (ROUNDED)				6,545

10. Description of Proposed Construction: Concrete foundation and floor slab, structural steel frame, masonry walls, and metal roof system. Includes drive-through stalls, administrative, supply, sleeping, exercise, training, recreation, and dining areas. Includes site improvements, access apron, utilities, fire protection, and all necessary support. Demolish one facility (1500 SM).
Air Conditioning: 46 KW.

11. REQUIREMENT: 2,950 SM ADEQUATE: 0 SUBSTANDARD: 1,500 SM
PROJECT: Construct a flightline fire station. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A flightline fire station is required to protect small and large frame composite wing aircraft and to store/maintain fire fighting apparatus. The station's location must be suited for rapid response to the ramp and allow visual observation of the flightline area. Aircraft assigned to the composite wing require larger fire crash/rescue vehicles to support the mission. The base has three new P-23 vehicles on station replacing smaller crash vehicles. Adequate space is required to house these new vehicles and store equipment, fire fighting agent, and protective clothing. Physical training rooms, dining area, lounge area and sleeping spaces are also required for emergency response crews in order to ensure proper readiness, health, safety and morale.
CURRENT SITUATION: Mountain Home AFB presently has one substandard flightline fire station. This facility is a 1953 structure which was designed to accommodate the smaller and less capable fire protection equipment available at that time. Advances in fire fighting technology have resulted in larger and more capable equipment being placed in the

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MOUNTAIN HOME AIR FORCE BASE, IDAHO

4. PROJECT TITLE	5. PROJECT NUMBER
FLIGHTLINE FIRE STATION	QYZH953004

inventory today. The new, and much larger, fire protection equipment cannot be accommodated in the existing facility. Due to existing facility constraints, vehicles now assigned to the installation are sheltered by inefficient canopy covers attached to the station exposing the equipment to the severe (below-freezing) local weather conditions. Additionally, two main pieces of crash/rescue equipment are housed over 1.6 kilometers away from the existing station which dramatically degrades emergency response times. There are not enough sleeping quarters for all fire fighters on shift. Further, existing sleeping quarters are not separated from the vehicle bays which violates OSHA regulations. The dining, storage, and physical fitness areas are also insufficient and are in extremely poor condition. Alteration and enlargement of the existing facility to accommodate the larger vehicles and additional personnel is not possible due to site limitations imposed by the close proximity of other buildings. This project will allow demolition of one substandard fire station facility.

IMPACT IF NOT PROVIDED: Critical mission aircraft along with Air Force equipment and facilities will be at risk as well as the lives and safety of assigned personnel. Fire fighting personnel and their equipment will continue to operate in a substandard and undersized facility which does not meet functional and operational requirements. Fire fighting apparatus will continue to be exposed to harsh weather conditions and accessibility will not be timely Valuable Air Force assets and people will continue to be placed at risk.

ADDITIONAL: This project follows the criteria/scope of Military Handbook 1190, "Facility Planning and Design Guide", and meets criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, new construction, renovation) was done. It indicates that new construction is the only option that will meet operational requirements. Because of this a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
MOUNTAIN HOME AIR FORCE BASE, IDAHO	
4. PROJECT TITLE	5. PROJECT NUMBER
FLIGHTLINE FIRE STATION	QYZH953004

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	94 AUG 02
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	94 DEC 15
(e)	Date Design Complete	96 JUL 01
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	390
(b)	All Other Design Costs	200
(c)	Total	590
(d)	Contract	
(e)	In-house	590
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MCCONNELL AIR FORCE BASE, KANSAS	AIR MOBILITY COMMAND	0.99

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	381	2217	314				30	49	73	3,064
b. End FY 2001	376	2182	424				30	49	73	3,134

7. INVENTORY DATA ($000)

a. Total Acreage: (3,103)	
b. Inventory Total As Of: (30 SEP 95)	320,091
c. Authorization Not Yet In Inventory:	10,550
d. Authorization Requested In This Program:	8,480
e. Authorization Included In Following Program: (FY 1998)	27,350
f. Planned In Next Three Program Years:	16,100
g. Remaining Deficiency:	55,400
h. Grand Total:	437,971

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	DORMITORY	140 PN	8,480	SEP 95	SEP 96
		TOTAL:	8,480		

9a. Future Projects: Included in the Following Program (FY 1998)

141-753	SQUADRON OPERATIONS FACILITY	3,800 SM	6,700
171-212	FLIGHT SIMULATION TRAINING	1,400 SM	3,550
610-128	MILITARY PERSONNEL SUPPORT CENTER	4,800 SM	6,400
690-000	PROCUREMENT FACILITY	800 SM	1,400
740-675	CONSOLIDATED EDUCATION CENTER	3,200 SM	6,700
740-884	ADD TO AND ALTER CHILD DEVELOPMENT CENTER	2,700 SM	2,600
		TOTAL:	27,350

9b. Future Projects: Typical Planned Next Three Years:

111-111	UPGRADE RUNWAY	LS	3,100
211-111	ALTER HANGAR ROOF	10,650 SM	1,100
422-265	WEAPON SUPPORT EQUIPMENT STORAGE FACILITY	350 SM	700
610-249	WING HEADQUARTERS	4,500 SM	6,900
730-773	CHAPEL CENTER	1,700 SM	3,200

10. Mission or Major Functions: An air refueling wing with four KC-135 squadrons; and an Air National Guard bomb group with a B-1 squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	1,000
c. Occupational safety and health:	2,100
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCONNELL AIR FORCE BASE, KANSAS	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	721-312	PRQE995017A	8,480

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (140 PN)	SM	4,650	1,200	5,580
SUPPORTING FACILITIES				2,040
UTILITIES	LS			(350)
PAVEMENTS	LS			(405)
SITE IMPROVEMENTS	LS			(325)
DEMOLITION/ASBESTOS REMOVAL/DISPOSAL	SM	4,800	200	(960)
SUBTOTAL				7,620
CONTINGENCY (5%)				381
TOTAL CONTRACT COST				8,001
SUPERVISION, INSPECTION AND OVERHEAD (6%)				480
TOTAL REQUEST				8,481
TOTAL REQUEST (ROUNDED)				8,480

10. Description of Proposed Construction: Construct a two-story structure with reinforced concrete foundation and floor slabs, masonry walls, roof, and fire protection. Includes room-bath-room modules, laundries, storage and lounge areas, and all necessary support. Site work to improve drainage and provide appropriately landscaped "green area" within the dorm campus. Includes demolition of two dormitories.
Air Conditioning: 280 KW. Grade Mix: 140 E1-E4.
Maximum Utilization: 140 Personnel

11. REQUIREMENT: 891 PN ADEQUATE: 449 PN SUBSTANDARD: 229 PN
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment project. It is a major Air Force objective to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: There are currently not enough adequate dormitories to accommodate the unaccompanied enlisted personnel at this installation. The facilities to be replaced have inadequate lighting, poor insulation and insufficient sound attenuation, and are plagued with obsolete electrical and mechanical systems. Both facilities do not conform to current fire protection and safety standards. These two dormitories (70 rooms each) were built in 1955 at a total of 2,400 square meters each will be demolished as a part of this project.
IMPACT IF NOT PROVIDED: Substandard living conditions will persist degrading morale, productivity, and career satisfaction for unaccompanied

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
MCCONNELL AIR FORCE BASE, KANSAS	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	PRQE995017A

enlisted personnel. Excessive energy consumption and maintenance costs will continue if these inefficient and substandard facilities remain in use.

ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
MCCONNELL AIR FORCE BASE, KANSAS	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	PRQE995017A

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 SEP 30
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	96 JAN 01
(e)	Date Design Complete	96 SEP 30
(2) Basis:		
(a)	Standard or Definitive Design -	
(b)	Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	510
(b)	All Other Design Costs	290
(c)	Total	800
(d)	Contract	650
(e)	In-house	150
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
BARKSDALE AIR FORCE BASE, LOUISIANA	AIR COMBAT COMMAND	0.84

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	880	4999	1137				378	377	189	7,960
b. End FY 2001	901	4971	1128				378	377	189	7,944

7. INVENTORY DATA ($000)

a. Total Acreage: (22,361)	
b. Inventory Total As Of: (30 SEP 95)	236,084
c. Authorization Not Yet In Inventory:	50,680
d. Authorization Requested In This Program:	4,890
e. Authorization Included In Following Program: (FY 1998)	1,250
f. Planned In Next Three Program Years:	7,500
g. Remaining Deficiency:	109,100
h. Grand Total:	409,504

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
131-111	COMMUNICATIONS SYSTEMS SQUADRON COMPLEX	1,375 SM	2,500	FEB 95	JUN 96
832-266	UPGRADE SANITARY SEWER SYSTEM	LS	2,390	MAY 95	AUG 96
		TOTAL:	4,890		

9a. Future Projects: Included in the Following Program (FY 1998)

831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS	1,250		
		TOTAL:	1,250		

9b. Future Projects: Typical Planned Next Three Years:

740-674	PHYSICAL FITNESS CENTER	2,000 SM	7,500		

10. Mission or Major Functions: Headquarters Eighth Air Force; a bomb wing with three B-52 squadrons, one of which is responsible for training B-52 aircrews; and an Air Force Reserve wing with an A/OA-10 squadron and a B-52 squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	3,490
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BARKSDALE AIR FORCE BASE, LOUISIANA	UPGRADE SANITARY SEWER SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	832-266	AWUB977501	2,390

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE SANITARY SEWER SYSTEM	LS			1,930
REPAIR/REPLACE SANITARY SEWER LINES	LM	3,050	340	(1,037)
REPAIR/REPLACE LIFTSTATIONS	EA	1	549,000	(549)
OIL/WATER SEPARATORS	EA	29	9,900	(287)
REPAIR MANHOLES	EA	300	190	(57)
SUPPORTING FACILITIES				125
SITE IMPROVEMENTS	LS			(125)
SUBTOTAL				2,055
CONTINGENCY (10%)				206
TOTAL CONTRACT COST				2,261
SUPERVISION, INSPECTION AND OVERHEAD (6%)				136
TOTAL REQUEST				2,397
TOTAL REQUEST (ROUNDED)				2,390

10. Description of Proposed Construction: Work includes rehabilitation of manholes (frames, covers, base, sidewalls), pipeline rehabilitation (parallel lines, point repairs, replacement), lift station replacement, lift station consolidation, and grease trap repairs.

11. REQUIREMENT: As required.

PROJECT: Upgrade sanitary sewer system. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. Barksdale AFB does not currently comply with the Clean Water Act (CWA) as administered by the Bossier City, Louisiana Industrial User Permit #BC0022 in accordance with provisions of Bossier City Ordinance #88 of 1992 Section 5.2; and the National Pollution Discharge Elimination System (NPDES) as administered by the Environmental Protection Agency (EPA) and the Louisiana Water Discharge Pollution System (LWDPS) permit #LA0007293. This project provides a sanitary sewer system which meets current environmental standards and eliminates Level I violations; specifically, a system with minimal inflow and infiltration, structural damage, and corroded components.

CURRENT SITUATION: The sanitary sewer system at Barksdale is the collection system for all base sewage. Sewage is pumped via two primary lift stations (one was constructed in the mid-30s and the other in the 40s) to Bossier City for treatment. Charges are based upon the volume and content of the effluent. The current system is comprised of a variety of materials, many dating back to the original time of construction of the base, in the 1940s. Inflow and infiltration, due to intrusion of tree roots, pipeline deterioration, failed connections, structurally poor manholes, and leaky seals/covers, have caused increases in the levels of total suspended solids (TSS) and in the documented violations of

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BARKSDALE AIR FORCE BASE, LOUISIANA

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE SANITARY SEWER SYSTEM	AWUB977501

Barksdale's wastewater treatment permit with Bossier City (Industrial User Permit #BC0022). Bad grease traps have caused additional violations of the permit. Liftstations are forced to work well beyond their rated capacities. Incidence of heavy rainfall, the inflow and infiltration problems, and insufficient liftstation pumping capacity have combined to cause the system to overflow and discharge raw sewage directly into the main storm drainage channel serving Barksdale and a significant part of Bossier City. The end result is noncompliance with environmental directives, high usage charges from Bossier City, and ever-increasing repair times and costs. Of particular concern is the violation of the NPDES/EPA/LWDPS permit #LA0007293 which prohibits discharge of untreated effluent into the waters of the United States (Mack's Bayou).
IMPACT IF NOT PROVIDED: Level I violations will continue. The base is becoming increasingly vulnerable to the imposition of enforcement action as it continues to remain in noncompliance with discharge permits which could result in the base receiving a Notices of Violation (NOVs) and fines up to $25,000 per day per violation. The system will continue to deteriorate. Inflow and infiltration will increase, causing sewage overflows at lift stations and TSS levels to continue to be exceeded. Barksdale usage charges will be increased dramatically to pay for the treatment of a huge volume of infiltrated effluent. Ramifications could be even greater, depending on the content of the infiltrated material.
ADDITIONAL: There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". This project is based on a comprehensive investigative study of Barksdale's sanitary sewer system. All known effective options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BARKSDALE AIR FORCE BASE, LOUISIANA

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE SANITARY SEWER SYSTEM	AWUB977501

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 MAY 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 DEC 01
(e)	Date Design Complete	96 AUG 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	130
(b)	All Other Design Costs	70
(c)	Total	200
(d)	Contract	170
(e)	In-house	30
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BARKSDALE AIR FORCE BASE, LOUISIANA	COMMUNICATIONS SYSTEMS SQUADRON COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.72.36	131-111	AWUB942302	2,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMMUNICATIONS SYSTEMS SQUADRON COMPLEX	SM	1,375		1,030
WAREHOUSE	SM	1,000	560	(560)
OPERATIONAL SUPPORT	SM	325	1,200	(390)
ARMORY	SM	50	1,600	(80)
SUPPORTING FACILITIES				1,210
UTILITIES	LS			(415)
POWER DISTRIBUTION PANELS	EA	6	29,167	(175)
PAVEMENTS	LS			(385)
SITE IMPROVEMENTS	LS			(235)
SUBTOTAL				2,240
CONTINGENCY (5%)				112
TOTAL CONTRACT COST				2,352
SUPERVISION, INSPECTION AND OVERHEAD (6%)				141
TOTAL REQUEST				2,493
TOTAL REQUEST (ROUNDED)				2,500

10. Description of Proposed Construction: Facilities consist of concrete foundation and floor slab, masonry walls and metal roof system, includes fire protection and security systems. Includes a government vehicle and communications equipment parking compound, fencing, electrial distribution system with six power distribution panels for communications trailers, and a wash rack. A small armory will also be provided.
Air Conditioning: 15 KW.

11. REQUIREMENT: 5,933 SM ADEQUATE: 4,558 SM SUBSTANDARD: 1,995 SM
PROJECT: Construct a communications systems squadron complex. (New Mission)
REQUIREMENT: Eighth Air Force will assume the Air Force role in the Joint Task Force for the war fighting components of US Atlantic Command. To support this new requirement a 200 man communications squadron was formed the first quarter of fiscal year 1995. This project provides the permanent storage/operational facilities, vehicle/equipment secure maintenance/parking compound and specialized utility support required for the training, maintenance and operation of assigned equipment while the unit is in garrison. These facilities are required to enable the newly activated communications squadron to consolidate and operate efficiently and meet stringent short-notice deployment commitments.
CURRENT SITUATION: The squadron's mobility mission essential equipment is presently being stored in two buildings. The Warrior Training Center building is located over 16 kilometers away on the other side of the installation and must be accessed by extremely poor roads. The other building is at the Louisiana Army Ammo Storage Depot located over 48 kilometers away. As a result the squadron is forced to operate from

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BARKSDALE AIR FORCE BASE, LOUISIANA

4. PROJECT TITLE	5. PROJECT NUMBER
COMMUNICATIONS SYSTEMS SQUADRON COMPLEX	AWUB942302

dispersed and unsuitable space. The support agreement with the Army provides for storage support until FY98. However, co-location of the squadron's assets with host unit assets creates confusion. Further, the squadron is forced to expend significant time traveling between facilities and equipment storage sites. This loss of productivity and span of control contribute significantly to inefficient operations.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to support the mission. The squadron will continue to operate out of substandard and dispersed facilities which has a detrimental affect on mission effectiveness and efficiency. Critical warfighting communications equipment will not be ready. This communication squadron's mission will continue to be seriously degraded. BASE CIVIL ENGINEER: Lt Col James D. Lyon, (318) 456-4856

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction, leasing) was done, and it indicated that new construction is the only option that could meet mission requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BARKSDALE AIR FORCE BASE, LOUISIANA

4. PROJECT TITLE	5. PROJECT NUMBER
COMMUNICATIONS SYSTEMS SQUADRON COMPLEX	AWUB942302

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 FEB 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	95 JUN 01
(e)	Date Design Complete	96 JUN 01
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	150
(b)	All Other Design Costs	90
(c)	Total	240
(d)	Contract	190
(e)	In-house	50
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
ANDREWS AIR FORCE BASE, MARYLAND	AIR MOBILITY COMMAND	1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1167	4304	1678				224	1352	285	9,010
b. End FY 2001	1146	4281	1649				224	1352	285	8,937

7. INVENTORY DATA ($000)

a. Total Acreage: (4,971)	
b. Inventory Total As Of: (30 SEP 95)	380,930
c. Authorization Not Yet In Inventory:	21,640
d. Authorization Requested In This Program:	5,990
e. Authorization Included In Following Program: (FY 1998)	36,850
f. Planned In Next Three Program Years:	22,550
g. Remaining Deficiency:	80,200
h. Grand Total:	548,160

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	ALTER DORMITORY	168	PN	5,990	NOV 94	AUG 96
		TOTAL:		5,990		

9a. Future Projects: Included in the Following Program (FY 1998)

411-135	IMPROVE JET FUEL STORAGE		LS	8,250
442-257	BASE HAZ MATERIALS STORAGE	1,400	SM	3,050
610-287	REPAIR SPECIFIED HEADQUARTERS		LS	4,000
721-312	DORMITORY	192	PN	14,400
740-253	FAMILY SERVICE CENTER	850	SM	2,150
740-884	CHILD DEVELOPMENT CENTER	2,400	SM	5,000
		TOTAL:		36,850

9b. Future Projects: Typical Planned Next Three Years:

121-122	REPAIR HYDRANT FUELING SYSTEM		LS	5,900
141-784	ADD TO AND ALTER PASSENGER TERMINAL/BASE OPERATIONS	2,600	SM	3,950
610-000	RENOVATE SUPPORT FACILITIES		LS	3,650
610-000	ADD TO AND ALTER WING HEADQUARTERS		LS	1,200
740-674	PHYSICAL FITNESS CENTER	3,100	SM	3,900

10. Mission or Major Functions: An airlift wing with four squadrons that perform Presidential support and Special Air Missions with (C-9, C-20, C-21, C-137, VC-25, and UH-1 aircraft); an AFRES airlift wing with a C-141 squadron; Air National Guard (ANG) wing with a F-16 fighter squadron and a C-21/C-22 airlift squadron; ANG Readiness Center; and a major USAF medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	1,800
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	ALTER DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	721-312	AJXF973001	5,990

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORY (168 PN)				4,180
ALTERATION	SM	5,500	760	(4,180)
SUPPORTING FACILITIES				955
UTILITIES	LS			(505)
SITE IMPROVEMENTS	LS			(150)
COMMUNICATIONS SUPPORT	LS			(300)
SUBTOTAL				5,135
CONTINGENCY (10%)				514
TOTAL CONTRACT COST				5,649
SUPERVISION, INSPECTION AND OVERHEAD (6%)				339
TOTAL REQUEST				5,988
TOTAL REQUEST (ROUNDED)				5,990

10. Description of Proposed Construction: Alter three-story dormitory. Includes upgrading mechanical and electrical systems, interior and exterior finishes, shared kitchens, laundry rooms, fire protection, asbestos abatement, and all necessary support for this existing one-plus-one dormitory. Also includes site work to improve drainage and provide appropriately landscaped "green area" within the dorm campus. Air Conditioning: 405 KW. Grade Mix: 168 E1-E4.
Maximum Utilization: 168 Personnel

11. REQUIREMENT: 1,608 PN ADEQUATE: 537 PN SUBSTANDARD: 699 PN
PROJECT: Alter dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment project. It is a major Air Force objective to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation, and personal well being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: The facility to be upgraded was constructed in 1978 and does not meet the current DoD dormitory construction standard and building codes. The associated parking lot requires a holding basin to control water runoff and comply with Maryland environmental laws. The dormitory has inadequate heating, ventilation and air conditioning, and fresh water supply. All interior and exterior finishes, interior doors, and interior lighting are worn, outdated, and require replacement. The dormitory lacks adequate storage space and laundry facilities.
IMPACT IF NOT PROVIDED: Substandard living conditions will persist and morale, productivity, and career satisfaction of the enlisted force will

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
ANDREWS AIR FORCE BASE, MARYLAND	
4. PROJECT TITLE	5. PROJECT NUMBER
ALTER DORMITORY	AJXF973001

continue to be degraded. The building will require increased maintenance and higher energy costs and will continue to be out of compliance with the DoD standards and local building codes.

ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, sending enlisted personnel off base paying BAQ/VHA and status quo. Based on the net present values and benefits of the respective alternatives, alteration was found to be the most cost effective over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

4. PROJECT TITLE	5. PROJECT NUMBER
ALTER DORMITORY	AJXF973001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	94 NOV 04
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	60%
(d) Date 35% Designed.	95 APR 18
(e) Date Design Complete	96 AUG 15
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	320
(b) All Other Design Costs	220
(c) Total	540
(d) Contract	460
(e) In-house	80
(4) Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
KEESLER AIR FORCE BASE, MISSISSIPPI	AIR EDUCATION AND TRAINING COMMAND	0.84

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	983	3802	2119	338	1901		78	1680		10,901
b. End FY 2001	922	3735	2128	329	2383		78	1680		11,255

7. INVENTORY DATA ($000)

a. Total Acreage: (1,611)	
b. Inventory Total As Of: (30 SEP 95)	274,056
c. Authorization Not Yet In Inventory:	18,100
d. Authorization Requested In This Program:	14,465
e. Authorization Included In Following Program: (FY 1998)	31,000
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	13,400
h. Grand Total:	351,021

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	STUDENT DORMITORY	400 PN	14,465	AUG 95	AUG 96
		TOTAL:	14,465		

9a. Future Projects: Included in the Following Program (FY 1998)

721-312	STUDENT DORMITORIES	800 PN	31,000
		TOTAL:	31,000

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Headquarters Second Air Force; a training wing responsible for communications, electronics, and administrative courses and a C-12/C-21 airlift squadron responsible for aircrew training; an Air Force Materiel Command engineering installation group; an Air Force Reserve airlift wing with one C-130 airlift squadron and one WC-130 weather reconnaissance squadron; and a major Air Force medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KEESLER AIR FORCE BASE, MISSISSIPPI	STUDENT DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.57.96	721-312	MAHG963000	14,465

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
STUDENT DORMITORY (400 PN)	SM	9,750		10,775
DORMITORY	SM	9,500	1,100	(10,450)
TRAINING MANAGER AREA	SM	250	1,300	(325)
SUPPORTING FACILITIES				2,170
UTILITIES	LS			(950)
SITE IMPROVEMENTS	LS			(800)
PAVEMENTS	LS			(420)
SUBTOTAL				12,945
CONTINGENCY (5%)				647
TOTAL CONTRACT COST				13,592
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				883
TOTAL REQUEST				14,475
TOTAL REQUEST (ROUNDED)				14,465

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls and roof, and fire suppression. Includes room-bath modules, training manager's offices, laundries, storage and all supporting spaces.
Air Conditioning: 137 KW. Grade Mix: 400 E1-E4.
Maximum Utilization: 400 Personnel

11. REQUIREMENT: 2,800 PN ADEQUATE: 396 PN SUBSTANDARD: 4,872 PN
PROJECT: Construct Student Dormitory (Current Mission).
REQUIREMENT: This is a Level 1 Commander's Facility Assessment requirement. A facility is required to support the technical training of students. A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform. A management area is required to house training managers responsible for student training and discipline. This project is the third phase of a multi-phased program to satisfy the total requirement. personnel: 400 E1-E4, with a maximum utilization of 400 personnel.
CURRENT SITUATION: Students live in substandard conditions, seriously eroding their quality of life. There are currently not enough adequate dormitories to accommodate the enlisted students at this installation. Existing substandard facilities were constructed 45 years ago to design standards and criteria in effect at that time. These facilities have central bathrooms, inadequate lighting, poor insulation and sound attenuation. The electrical and mechanical systems are obsolete and

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
KEESLER AIR FORCE BASE, MISSISSIPPI	
4. PROJECT TITLE	5. PROJECT NUMBER
STUDENT DORMITORY	MAHG963000

energy inefficient. Foundations have begun to settle, with some rooms being closed. Roofs, doors, and windows have deteriorated and no longer function properly. There is no fire suppression system.
IMPACT IF NOT PROVIDED: Adequate living quarters will continue to be unavailable eroding the quality of life for students. High building maintenance and operation costs will continue to impact limited base resources and affect the accomplishment of mission related tasks.
ADDITIONAL: The new OSD dormitory standard does not apply to housing constructed for members receiving entry-level skill training. This dormitory is being designed to a modified 2 plus 2 standard with the primary difference being each shared sleeping room will have a bath. An Economic Analysis has been prepared comparing alternatives of new construction, revitalization, leasing and status quo. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost-efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

KEESLER AIR FORCE BASE, MISSISSIPPI

4. PROJECT TITLE	5. PROJECT NUMBER
STUDENT DORMITORY	MAHG963000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 DEC 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	1%
(d)	Date 35% Designed.	96 JUL 15
(e)	Date Design Complete	96 DEC 15
(2) Basis:		
(a)	Standard or Definitive Design -	
(b)	Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	840
(b)	All Other Design Costs	360
(c)	Total	1200
(d)	Contract	800
(e)	In-house	400
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
INDIAN SPRINGS AUXILIARY FIELD, NEVADA	AIR COMBAT COMMAND	1.19

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	3	100								103
b. End FY 2001	3	100								103

7. INVENTORY DATA ($000)

a. Total Acreage: (2,300)	
b. Inventory Total As Of: (30 SEP 89)	25,794
c. Authorization Not Yet In Inventory:	6,100
d. Authorization Requested In This Program:	4,690
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	36,584

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	UAV OPERATIONS AND MAINTENANCE FACILITIES	2,050 SM	4,690	AUG 95	OCT 96
		TOTAL:	4,690		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: An auxiliary airfield that supports the USAF Weapons Center at Nellis AFB, NV, during contingency and surge flying activities (Red Flag exercises, Gunsmoke competitions, Thunderbirds practices, etc.); reconnaissance squadron equipped with Predator UAVs.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
INDIAN SPRINGS AIR FORCE AUXILIARY AIR FIELD, NEVADA	UAV OPERATIONS AND MAINTENANCE FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.87	141-753	HACC973002	4,690

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UAV OPERATIONS AND MAINTENANCE FACILITIES	SM	2,050		3,095
UAV SQ OPS/AMU/TRAINING FACILITY	SM	1,300	1,400	(1,820)
UAV AIRCRAFT MAINTENANCE HANGAR	SM	750	1,700	(1,275)
SUPPORTING FACILITIES				1,125
UTILITIES	LS			(345)
SITE IMPROVEMENTS	LS			(205)
PAVEMENTS	LS			(170)
WATER STORAGE TANK	EA	1	405,000	(405)
SUBTOTAL				4,220
CONTINGENCY (5%)				211
TOTAL CONTRACT COST				4,431
SUPERVISION, INSPECTION AND OVERHEAD (6%)				266
TOTAL REQUEST				4,697
TOTAL REQUEST (ROUNDED)				4,690

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls, structural steel frame, metal roof system and fire protection. Hangar includes overhead crane and required fire suppression system. Includes a 250 KGal water storage tank, utilities, pavements, site improvements and all necessary support.
Air Conditioning: 210 KW.

11. REQUIREMENT: 2,050 SM ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct Unmanned Aerial Vehicle (UAV) operations and maintenance facilities. (New Mission)
REQUIREMENT: Permanent facilities of adequate size and configuration are required to beddown a new UAV squadron at Indian Springs Air Force Auxiliary Air Field. The squadron operations/aircraft maintenance unit/training facility is required to support mission planning, direct flight operations and maintenance functions, brief and critique UAV student pilots and maintenance personnel, and provide space for maintenance and flight simulator training equipment. The UAV aircraft maintenance hangar is required to support direct maintenance of assigned UAV assets. A water storage tank is required to meet fire fighting requirements.
CURRENT SITUATION: HQ Air Combat Command is standing up a UAV squadron at Indian Springs Air Force Auxiliary Air Field in support a Defense Airborne Reconnaissance Office (DARO) initiative to base 10 Medium Altitude Endurance (MAE) UAV predators by the first quarter of FY97. These aircraft are currently in the developmental stages for testing and evaluation. Indian Springs Air Force Auxiliary Air Field does not currently have any excess facilities that can be reconfigured to support

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

INDIAN SPRINGS AIR FORCE AUXILIARY AIR FIELD, NEVADA

4. PROJECT TITLE	5. PROJECT NUMBER
UAV OPERATIONS AND MAINTENANCE FACILITIES	HACC973002

this new mission's operational and maintenance requirements. These functions will be colocated with other missions at the installation in existing wood framed structures and trailers until required permanent facilities are provided. Additionaly, the installation lacks adequate water pressure and flow required to meet minimum fire fighting requirements.

IMPACT IF NOT PROVIDED: Failure to provide facilities to support this new mission beddown will significantly impact UAV operational and training capabilities. Adequate facilities will not be available to perform essential squadron operations, logistics, and training functions forcing additional work-arounds which will degrade mission performance.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project was done. It indicates that only new construction will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

INDIAN SPRINGS AIR FORCE AUXILIARY AIR FIELD, NEVADA

4. PROJECT TITLE	5. PROJECT NUMBER
UAV OPERATIONS AND MAINTENANCE FACILITIES	HACC973002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 AUG 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 DEC 01
(e)	Date Design Complete	96 OCT 01
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	280
(b)	All Other Design Costs	180
(c)	Total	460
(d)	Contract	342
(e)	In-house	118
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MCGUIRE AIR FORCE BASE, NEW JERSEY	AIR MOBILITY COMMAND	1.19

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	607	4072	1182				51	368	157	6,437
b. End FY 2001	594	4035	1104				51	368	157	6,309

7. INVENTORY DATA ($000)

a. Total Acreage: (3,598)	
b. Inventory Total As Of: (30 SEP 95)	243,896
c. Authorization Not Yet In Inventory:	47,400
d. Authorization Requested In This Program:	8,080
e. Authorization Included In Following Program: (FY 1998)	30,000
f. Planned In Next Three Program Years:	8,200
g. Remaining Deficiency:	57,220
h. Grand Total:	394,796

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	DORMITORY	122	PN	8,080	OCT 95	AUG 96
		TOTAL:		8,080		

9a. Future Projects: Included in the Following Program (FY 1998)

171-815	NCO PME CENTER	2,200	SM	4,900
721-312	ALTER DORMITORIES	252	PN	8,000
722-351	DINING FACILITY	2,000	SM	6,300
740-674	ADD TO AND ALTER PHYSICAL FITNESS CENTER	5,000	SM	5,500
821-117	IMPROVE HEATING FACILITY BUILDING		LS	3,700
880-212	DELUGE SYSTEM		LS	1,600
		TOTAL:		30,000

9b. Future Projects: Typical Planned Next Three Years:

141-753	SQUADRON OPERATIONS FACILITY	1,500	SM	2,600
721-312	ALTER DORMITORIES	224	PN	5,600

10. Mission or Major Functions: Headquarters Twenty-First Air Force; an air mobility wing with two C-141B squadrons and two KC-10A squadrons; an Air Mobility Operations Group (AMOG); the Air Mobility Command Mobility Warfare Center; an Air Force Reserve C-141/KC-10 associate air mobility wing; and an Air National Guard air refueling wing with two KC-135 squadrons.

11. Outstanding pollution and safety (OSH) deficiencies:

a.	Air pollution:	3,700
b.	Water pollution:	0
c.	Occupational safety and health:	1,600
d.	Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	721-312	PTFL973007	8,080

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (122 PN)	SM	4,050	1,400	5,670
SUPPORTING FACILITIES				1,590
UTILITIES	LS			(375)
PAVEMENTS	LS			(350)
SITE IMPROVEMENTS	LS			(435)
DEMOLITION/ASBESTOS REMOVAL/DISPOSAL	SM	2,400	179	(430)
SUBTOTAL				7,260
CONTINGENCY (5%)				363
TOTAL CONTRACT COST				7,623
SUPERVISION, INSPECTION AND OVERHEAD (6%)				457
TOTAL REQUEST				8,080
TOTAL REQUEST (ROUNDED)				8,080

10. Description of Proposed Construction: A three-story structure with reinforced concrete foundation and floor slabs, masonry walls, roof, and fire protection. Site work to improve drainage and provide appropriately landscaped "green area" within the dorm campus. Includes room-bath-room modules, laundries, storage and lounge areas, and all necessary support. Project includes the demolition of one dormitory.
Air Conditioning: 280 KW. Grade Mix: 122 E1-E4.
Maximum Utilization: 122 Personnel

11. REQUIREMENT: 1,241 PN ADEQUATE: 661 PN SUBSTANDARD: 812 PN
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment project. It is a major Air Force objective to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: There are currently not enough adequate dormitories to accommodate the unaccompanied enlisted personnel at this installation. The dormitory to be replaced is plagued with inadequate lighting, poor insulation, insufficient sound attenuation, and obsolete electrical and mechanical systems. It does not conform with current fire protection standards, is inadequately sized, and does not provide semiprivate baths. This substandard 1955 dormitory (72 rooms at 2,400 SM) will be demolished as a part of this project.
IMPACT IF NOT PROVIDED: Substandard living conditions will persist degrading morale, productivity, and career satisfaction for unaccompanied

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
MCGUIRE AIR FORCE BASE, NEW JERSEY	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	PTFL973007

enlisted personnel. Excessive energy consumption and maintenance costs will continue if this inefficient and substandard facility remains in use. ADDITIONAL: This project meets the criteria/scope in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCGUIRE AIR FORCE BASE, NEW JERSEY

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	PTFL973007

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 OCT 20
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	96 JAN 01
(e) Date Design Complete	96 AUG 31
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	480
(b) All Other Design Costs	330
(c) Total	810
(d) Contract	690
(e) In-house	120
(4) Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
POPE AIR FORCE BASE, NORTH CAROLINA	AIR COMBAT COMMAND	0.86

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	569	3886	342				97	341	165	5,400
b. End FY 2001	559	3875	339				97	341	165	5,376

7. INVENTORY DATA ($000)

a. Total Acreage: (1,875)	
b. Inventory Total As Of: (30 SEP 95)	111,364
c. Authorization Not Yet In Inventory:	37,610
d. Authorization Requested In This Program:	5,915
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	1,000
g. Remaining Deficiency:	86,800
h. Grand Total:	242,689

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	C-130 ADAL SQUADRON OPERATIONS AIRCRAFT MAINTENANCE UNIT FAC	4,250 SM	3,850	JUN 95	SEP 96
832-266	UPGRADE SANITARY SEWER SYSTEM	LS	2,065	JUL 95	SEP 96
		TOTAL:	5,915		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS	1,000

10. Mission or Major Functions: A composite wing which includes one F-16 squadron, one A/OA-10 squadron, and two C-130 squadrons; and Headquarters Joint Special Operations Command.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	4,000
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
POPE AIR FORCE BASE, NORTH CAROLINA	C-130 ADAL SQUADRON OPERATIONS AIRCRAFT MAINTENANCE UNIT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.15	141-753	TMKH953008	3,850

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-130 ADAL SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT FAC	SM	4,250		3,388
ADD TO SQUADRON OPERATIONS/AMU FAC	SM	2,200	1,400	(3,080)
ALTER SQUADRON OPERATIONS/AMU FAC	SM	2,050	150	(308)
SUPPORTING FACILITIES				80
UTILITIES	LS			(10)
PAVEMENTS	SM	230	261	(60)
SITE IMPROVEMENTS	LS			(10)
SUBTOTAL				3,468
CONTINGENCY (5%)				173
TOTAL CONTRACT COST				3,641
SUPERVISION, INSPECTION AND OVERHEAD (6%)				218
TOTAL REQUEST				3,859
TOTAL REQUEST (ROUNDED)				3,850

10. Description of Proposed Construction: Addition includes reinforced concrete foundation and floor slab, matching exterior finish and roof systems. Includes utilities, fire protection, site improvements and all necessary support.
Air Conditioning: 60 KW.

11. REQUIREMENT: 13,218 SM ADEQUATE: 5,762 SM SUBSTANDARD: 3,206 SM
PROJECT: C-130 add to and alter a squadron operations and aircraft maintenance unit (AMU) facility. (New Mission)
REQUIREMENT: This project is required to comply with Air Force guidance to build objective wing squadrons by combining aircraft operators with flightline maintainers. The existing facility cannot accommodate several maintenance functions (support storage, analysis branch office, and conference/training areas) or any of the life support functions (flightline storage, mobility work area, helmet storage, inspections shop, NCOIC office, and POK storage). Additional space will allow minimum support of these functions and will allow a condition code three facility, currently storing aircraft accessory (dash-21) equipment, to be demolished. The addition will require minimal rework of existing areas. The consolidated facility will allow the squadron to comply with the current objective wing squadron configuration.
CURRENT SITUATION: Existing Sq Ops/AMU operations are accomplished in undersized, physically separated, and substandard facilities. Overcrowded conditions were further exasperated with the objective wing squadron unifications. Inefficiencies include fragmented lines of communication/authority and a lack of space for mission planning and briefings, equipment storage, tool cribs, bench stock, and maintenance

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

POPE AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
C-130 ADAL SQUADRON OPERATIONS AIRCRAFT MAINTENANCE UNIT FAC	TMKH953008

operations. Squadron manning is presently 537. The existing Sq Ops/AMU facility only provides 3.7 SM per person; the standard is 8.4 to 11.1 SM per person. Because of the space shortage, life support functions share space with the Wing life support functions in other facilities. Further, training and locker room space have been sacrificed to provide required maintenance areas. Existing Sq Ops/AMU overcrowded conditions, coupled with the separation of the life support function, violate the tenets of the objective wing squadron and make efficient operations impossible.
IMPACT IF NOT PROVIDED: Operations, maintenance, and support personnel will remain in separated, substandard, and undersized facilities and will never develop the cohesiveness necessary to become an efficient and effective operational organization. The physical separation will continue to hamper the lines of authority and communication throughout the squadron. Essential squadron operations and logistic functions will continue to require work-arounds that will degrade mission performance. The lack of adequate facilities will impact the ability of the squadron to train for and accomplish its combat/wartime and training missions.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options (status quo and new construction) was done. It indicates there is only one option that will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

POPE AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
C-130 ADAL SQUADRON OPERATIONS AIRCRAFT MAINTENANCE UNIT FAC	TMKH953008

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUN 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 DEC 01
(e)	Date Design Complete	96 SEP 01
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	225
(b)	All Other Design Costs	175
(c)	Total	400
(d)	Contract	320
(e)	In-house	80
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
POPE AIR FORCE BASE, NORTH CAROLINA	UPGRADE SANITARY SEWER SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56	832-266	TMKH973003	2,065

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE SANITARY SEWER SYSTEM	LS			1,504
REPAIR/REPLACE SANITARY SEWER LINES	LM	3,450	340	(1,173)
REPAIR/REPLACE MANHOLES	EA	180	1,200	(216)
UPGRADE LIFT STATIONS	EA	12	9,600	(115)
SUPPORTING FACILITIES				270
SITE IMPROVEMENTS	LS			(150)
DEMOLITION	LS			(120)
SUBTOTAL				1,774
CONTINGENCY (10%)				177
TOTAL CONTRACT COST				1,951
SUPERVISION, INSPECTION AND OVERHEAD (6%)				117
TOTAL REQUEST				2,068
TOTAL REQUEST (ROUNDED)				2,065

10. Description of Proposed Construction: Demolish existing sewer line. Repair/replace vitreous clay and concrete sanitary sewer lines as required. Repair/replace brick and concrete manholes as required. Upgrade pumps, motors, electric panels and related circuits, ventilation system and reseal domes on 12 lift stations.

11. REQUIREMENT: As required.

PROJECT: Upgrade sanitary sewer system (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. Pope AFB must comply with the Clean Water Act (CWA) as administered by Fort Bragg, North Carolina. Fort Bragg must comply with it's National Pollution Discharge Elimination System (NPDES) permit issued by the North Carolina Department of Environment, Health and Natural Resources (DEHNR) Division of Environmental Management. Pope must also comply with a pending North Carolina storm water permit.

CURRENT SITUATION: The Pope AFB sanitary sewer system is connected to the Fort Bragg wastewater treatment plant. The Pope AFB sanitary sewer system has excessive infiltration & inflow due to storm water following heavy rains as documented by increased flows at the Fort Bragg wastewater treatment plant. This has been further substantiated by a Sewer System Evaluation Study (SSES) completed in June 1995. The sanitary sewer system at Pope AFB has degraded to a point that tree roots have grown through the lines, causing pipeline blockages, breakages, and manhole back-ups. There have been several instances where raw sewage has flowed into a tributary of Tank Creek. The DEHNR has been notified of nine sewage discharge and lift station failure incidents since November 1993. Excessive inflow & infiltration only worsens the situation by increasing the flow in an already restricted system. The degraded condition of the Pope sanitary

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

POPE AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE SANITARY SEWER SYSTEM	TMKH973003

sewer system contributes to the Fort Bragg wastewater treatment plant's difficulties remaining in compliance with it's NPDES permit.

IMPACT IF NOT PROVIDED: Pope AFB will continue to be in noncompliance with the CWA by allowing the discharge of raw sewage into the waters of the United States. The base is becoming increasingly vulnerable to enforcement action as it continues to remain in noncompliance with discharge permits which could result in the base receiving a Notices of Violation (NOVs) and fines up to $25,000 per day per violation. Environmental noncompliance strains relation with the host community, creates an environmental threat and can lead to additional enforcement actions.

ADDITIONAL: There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known effective options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

POPE AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE SANITARY SEWER SYSTEM	TMKH973003

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUL 30
(b)	Parametric Cost Estimates used to develop costs	N
(c)	Percent Complete as of Jan 1996	50%
(d)	Date 35% Designed.	95 SEP 30
(e)	Date Design Complete	96 SEP 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	120
(b)	All Other Design Costs	65
(c)	Total	185
(d)	Contract	120
(e)	In-house	65
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA	AIR COMBAT COMMAND	0.86

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	513	4132	468				37	62	183	5,395
b. End FY 2001	466	3857	608				37	62	183	5,213

7. INVENTORY DATA ($000)

a. Total Acreage: (4,107)	
b. Inventory Total As Of: (30 SEP 95)	196,480
c. Authorization Not Yet In Inventory:	19,110
d. Authorization Requested In This Program:	11,280
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	45,140
h. Grand Total:	272,010

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	F-15E SQUADRON OPERATIONS/ ALTER ACADEMIC FACILITY	4,000 SM	3,490	AUG 95	SEP 96
171-212	F-15E ADD TO AND ALTER FLIGHT SIMULATOR TRAINING FACILITIES	LS	3,460	AUG 95	SEP 96
218-712	F-15E AEROSPACE GROUND EQUIPMENT FACILITY/POD STORAGE	2,025 SM	2,405	SEP 95	SEP 96
724-417	F-15E STUDENT OFFICER QUARTERS	20 PN	1,925	SEP 95	DEC 96
		TOTAL:	11,280		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A wing with four F-15 fighter squadrons, with two conducting 15E initial qualification training; and an Air Force Reserve Air Refueling Wing with one KC-135R squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	7,200
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA	F-15E STUDENT OFFICER QUARTERS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.71.34	724-417	HACC953043	1,925

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-15E STUDENT OFFICER QUARTERS (20 PN)	SM	1,200	1,200	1,440
SUPPORTING FACILITIES				305
UTILITIES	LS			(125)
SITE IMPROVEMENTS	LS			(80)
PAVEMENTS	LS			(100)
SUBTOTAL				1,745
CONTINGENCY (5%)				87
TOTAL CONTRACT COST				1,832
SUPERVISION, INSPECTION AND OVERHEAD (6%)				110
TOTAL REQUEST				1,942
TOTAL REQUEST (ROUNDED)				1,925

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, exterior masonry walls, standing seam metal roof system, fire protection, and site improvements. Includes room modules, laundry, storage and lounge areas and all necessary support.
Air Conditioning: 236 KW. Grade Mix: 20 O3-O10.
Maximum Utilization: 20 Personnel

11. REQUIREMENT: 72 PN ADEQUATE: 44 PN SUBSTANDARD: 8 PN
PROJECT: Construct a F-15E student Officer Quarters. (New Mission)
REQUIREMENT: It is a major Air Force objective is to provide personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform. Adequate on-base quarters are critical to ensure student pilots receive required aircrew rest. The safety and well being of student pilots is directly related to the quality of their living and training environment.
CURRENT SITUATION: The F-15E Formal Training Unit (FTU), previously located at Luke AFB, has moved to Seymour-Johnson AFB as a result of the F-16 training consolidation initiative at Luke. The first increment of the F-15E FTU arrived on station during the first quarter of FY95. The second and final increment of the relocation was completed the second quarter of FY95. On-base transient quarters are currently used at maximum capacity and cannot accommodate the planned FTU student load of 20 pilots. Normal FTU training period is 4 to 5 months. Off-base contract quarters are limited, cannot be logistically supported and do not provide a conducive environment for student pilot training.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
F-15E STUDENT OFFICER QUARTERS	HACC953043

IMPACT IF NOT PROVIDED: Substandard living conditions will persist degrading morale, productivity, and career satisfaction for student pilots. On-base quarters will not be available to support the additional transient load and students will be forced to use off-base contract quarters. Continuing operate in this manner will jeopardize the quality of training for student pilots attending this critical one-of-a-kind F-15E schoolhouse. Pilots will be assigned to combat units with less than optimum training; thus, degrading unit combat capability and readiness.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of status quo, build new/renovate, build new, and lease. Based on the present values and benefits of the respective alternatives, build new/renovate was found to be the most cost effective over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
F-15E STUDENT OFFICER QUARTERS	HACC953043

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 SEP 30
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	96 JAN 15
(e)	Date Design Complete	96 DEC 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	100
(b)	All Other Design Costs	60
(c)	Total	160
(d)	Contract	140
(e)	In-house	20
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA	F-15E ADD TO AND ALTER FLIGHT SIMULATOR TRAINING FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.71.34	171-212	HACC953042	3,460

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-15E ADD TO AND ALTER FLIGHT SIMULATOR TRAINING FACILITIES	LS			2,477
ADDITION	SM	1,400	1,600	(2,240)
ALTERATION	LS			(237)
SUPPORTING FACILITIES				630
UTILITIES	LS			(210)
PAVEMENTS	LS			(210)
SITE IMPROVEMENTS	LS			(210)
SUBTOTAL				3,107
CONTINGENCY (5%)				155
TOTAL CONTRACT COST				3,262
SUPERVISION, INSPECTION AND OVERHEAD (6%)				196
TOTAL REQUEST				3,458
TOTAL REQUEST (ROUNDED)				3,460

10. Description of Proposed Construction: Concrete foundation and floor slab, structural steel frame, masonry walls, HVAC and electrical systems for flight simulator. Alters existing facility for Training System Support Center (TSSC). Includes computer and storage areas, power conditioning, electronic security, and software maintenance space. Includes utilities, site improvements and all necessary support. Air Conditioning: 703 KW.

11. REQUIREMENT: 4,420 SM ADEQUATE: 1,170 SM SUBSTANDARD: 1,850 SM
PROJECT: F-15E add to and alter flight simulator training facilities. (New Mission)
REQUIREMENT: The F-15E Formal Training Unit (FTU), previously located at Luke AFB, has moved to Seymour-Johnson AFB as a result of the F-16 training consolidation initiative at Luke. The first increment of the F-15E FTU arrived on station during the first quarter of FY95. The second and final increment of the relocation was completed the second quarter of FY95. An adequately sized facility is required to support relocation of F-15E flight simulator equipment. This modern state-of-the-art simulator equipment will enhance all phases of aircrew training, i.e. initial qualification, proficiency maintenance, and mission procedures. Facility alterations are required to support relocation of the TSSC where software is developed and tested for all training devices supporting the F-15E weapons system. A combination of computer/simulator laboratory space and adjacent development and administrative space is required. Average daily student pilot load is 20.
CURRENT SITUATION: The base currently has only one F-15E simulator designed to support the on-going training requirements of the three

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA	
4. PROJECT TITLE F-15E ADD TO AND ALTER FLIGHT SIMULATOR TRAINING FACILITIES	5. PROJECT NUMBER HACC953042

operational F-15E combat squadrons assigned to Seymour-Johnson AFB. The additional simulator facilities are required to support the relocation of the F-15E FTU form Luke AFB. A single simulator cannot adequately support the training requirements for both the operational combat squadrons and the new training squadron. As an interim measure, training will be accomplished by maximizing use of the existing simulator by deferring required maintenance and scheduling training during night hours. However, even with maximizing utilization of the existing simulator, only 50 percent of required simulator training for F-15E combat aircrews can be supported. The TSSC and the second simulator will remain at Luke AFB until adequate facilities are available at Seymour-Johnson AFB. Moving the TSSC to the base would require use of additional interim facilities for contractor personnel and would further complicate scheduling of the single F-15E simulator.

IMPACT IF NOT PROVIDED: Relocation of the F-15E simulator from Luke AFB to Seymour-Johnson AFB cannot be supported. Required simulator training for assigned F-15E combat aircrews will be reduced by 50 percent. Relocation of the F-15E TSSC cannot be supported. Lack of required facilities will jeopardize the quality of the training for student pilots attending this critical one-of-a-kind F-15E schoolhouse. Pilots will be assigned to combat units with less than optimum training; thus, degrading unit combat capability and readiness.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project has been prepared. It indicates that only new construction will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
F-15E ADD TO AND ALTER FLIGHT SIMULATOR TRAINING FACILITIES	HACC953042

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 AUG 15
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	96 JAN 15
(e) Date Design Complete	96 SEP 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	200
(b) All Other Design Costs	100
(c) Total	300
(d) Contract	200
(e) In-house	100
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA	F-15E AEROSPACE GROUND EQUIPMENT FACILITY/POD STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.71.34	218-712	HACC953041	2,405

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-15E AEROSPACE GROUND EQUIPMENT				
FACILITY/POD STORAGE	SM	2,025		1,764
AEROSPACE GROUND EQUIPMENT FACILITY	SM	1,650	960	(1,584)
POD STORAGE	SM	375	480	(180)
SUPPORTING FACILITIES				390
UTILITIES	LS			(120)
SITE IMPROVEMENTS	LS			(120)
PAVEMENTS	LS			(150)
SUBTOTAL				2,154
CONTINGENCY (5%)				108
TOTAL CONTRACT COST				2,262
SUPERVISION, INSPECTION AND OVERHEAD (6%)				136
TOTAL REQUEST				2,398
TOTAL REQUEST (ROUNDED)				2,405

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, reinforced masonry walls, steel frame, standing seam metal roof system, pavements, site improvements, and all necessary support. Includes a POD storage pre-engineered metal building with concrete slab.

11. REQUIREMENT: 2,025 SM ADEQUATE: 0 SUBSTANDARD: 2,277 SM

PROJECT: Construct a F-15E aerospace ground equipment (AGE) facility and a POD storage facility. (New Mission)

REQUIREMENT: The F-15E Formal Training Unit (FTU), previously located at Luke AFB, has moved to Seymour-Johnson AFB as a result of the F-16 training consolidation initiative at Luke. The first increment of the F-15E FTU arrived on station during the first quarter of FY95. The second and final increment of the relocation was completed the second quarter of FY95. Adequate shop space is required for AGE maintenance. The facility must be designed and sized to accommodate the volume of repair work associated with assigned AGE, approximately 800 pieces of equipment. Adequate storage space is required for storage of Electronic Counter-Measure (ECM) PODs for F-15E aircraft.

CURRENT SITUATION: The existing AGE maintenance facility is marginally adequate to support the workload associated with the three assigned F-15E combat squadrons. This facility has evolved over time, with multiple additions and alterations, is awkwardly configured, and does not provide a conducive environment for efficient AGE maintenance operations. The existing facility cannot accommodate the additional AGE maintenance workload associated with the additional 30 Primary Assigned Aircraft (PAA) training squadron. A new AGE maintenance facility is essential to support the expanded mission of the base. The new facility will allow

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
F-15E AEROSPACE GROUND EQUIPMENT FACILITY/POD STORAGE	HACC953041

consolidation of all AGE maintenance activities within a single and properly configured facility capable of supporting the mission. The existing AGE facility will be used for engine storage upon completion of this project; thus, negating the requirement for additional engine storage facilities. The existing base POD storage facilities cannot support the additional POD storage requirements associated with this new mission. The training mission has increased the base POD storage requirement by over thirty percent. Due to security requirements and the need to protect the PODs from the elements, interior storage is required.

IMPACT IF NOT PROVIDED: Facilities required to perform AGE maintenance and store PODs associated with the relocation of the F-15E FTU will not be available. Lack of required facilities will jeopardize the quality of maintenance for assigned AGE and ultimately the training for student pilots attending this critical one-of-a-kind F-15E schoolhouse. Pilots will be assigned to combat units with less than optimum training; thus, degrading unit combat capability and readiness

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project has been prepared. It indicates that only new construction will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
F-15E AEROSPACE GROUND EQUIPMENT FACILITY/POD STORAGE	HACC953041

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 SEP 30
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	96 JAN 15
(e)	Date Design Complete	96 SEP 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	140
(b)	All Other Design Costs	75
(c)	Total	215
(d)	Contract	165
(e)	In-house	50
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA	F-15E SQUADRON OPERATIONS/ ALTER ACADEMIC FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.71.34	141-753	HACC953039	3,490

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-15E SQUADRON OPERATIONS/ ALTER ACADEMIC FACILITY	SM	4,000		2,470
SQUADRON OPERATIONS FACILITY	SM	2,050	1,100	(2,255)
ALTER ACADEMIC FACILITY	SM	1,950	110	(215)
SUPPORTING FACILITIES				665
UTILITIES	LS			(300)
PAVEMENTS	LS			(290)
SITE IMPROVEMENTS	LS			(75)
SUBTOTAL				3,135
CONTINGENCY (5%)				157
TOTAL CONTRACT COST				3,292
SUPERVISION, INSPECTION AND OVERHEAD (6%)				198
TOTAL REQUEST				3,490
TOTAL REQUEST (ROUNDED)				3,490

10. Description of Proposed Construction: New squadron operations facility consists of reinforced concrete foundation and floor slab, reinforced masonry walls, steel frame, standing seam metal roof system, pavements, site improvements, utilities and all necessary support. Alter academic facility consists of all electrical, structural and mechanical work required to upgrade an existing facility to support flight training. Air Conditioning: 352 KW.

11. REQUIREMENT: As required.
PROJECT: Construct a F-15E squadron operations facility and alter an academic facility. (New Mission)
REQUIREMENT: Adequate facilities are required to support the F-15E Formal Training Unit (FTU) which has relocated from Luke AFB to Seymour-Johnson AFB. An adequate squadron operations facility is needed to plan, brief, and critique student pilots, direct flight operations and aircraft maintenance functions, and to provide space for aircrew life support inspection, service, and storage. An academic facility is required to provide adequate academic instruction for students assigned to the F-15E training squadron. An existing facility will be upgraded to satisfy this requirement. The academic facility must provide an environment conducive to flight training.
CURRENT SITUATION: The F-15E FTU, formally located at Luke AFB, has relocated to Seymour-Johnson AFB as a result of the F-16 training consolidation initiative at Luke AFB. The first increment of the F-15E FTU arrived on station during the first quarter of FY95. The second and final increment of the relocation was completed the second quarter of FY95. This initiative resulted in the addition of a complete fighter

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
F-15E SQUADRON OPERATIONS/ ALTER ACADEMIC FACILITY	HACC953039

squadron to the existing Seymour-Johnson AFB mission. To temporarily beddown the F-15E FTU the existing operations support squadron has relocated into leased interim facilities. The vacated building, along with additional leased interim facilities, are being utilized to house the relocated FTU operations until permanent facilities are provided.
IMPACT IF NOT PROVIDED: The F-15E FTU will continue to operate out of inadequate interim facilities. Continuing to operate in this manner will jeopardize the quality of training for student pilots attending this critical one-of-a-kind F-15E schoolhouse. Pilots will be assigned to combat units with less than optimum training; thus, degrading unit combat capability and readiness.
ADDITIONAL: There is no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project has been prepared. It indicates that only new construction and alterations will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
F-15E SQUADRON OPERATIONS/ ALTER ACADEMIC FACILITY	HACC953039

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 AUG 15
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	96 JAN 15
(e) Date Design Complete	96 SEP 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	200
(b) All Other Design Costs	100
(c) Total	300
(d) Contract	225
(e) In-house	75
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	AIR MOBILITY COMMAND	0.98

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	712	3927	396				1	2	85	5,123
b. End FY 2001	400	2628	371				1	2	85	3,487

7. INVENTORY DATA ($000)

a. Total Acreage: (5,422)	
b. Inventory Total As Of: (30 SEP 95)	324,600
c. Authorization Not Yet In Inventory:	12,900
d. Authorization Requested In This Program:	12,470
e. Authorization Included In Following Program: (FY 1998)	13,500
f. Planned In Next Three Program Years:	14,900
g. Remaining Deficiency:	39,550
h. Grand Total:	417,920

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	3,800 SM	6,485	MAR 94	AUG 96
722-351	DINING FACILITY	2,570 SM	5,985		
		TOTAL:	12,470		

9a. Future Projects: Included in the Following Program (FY 1998)

141-753	SQUADRON OPERATIONS FACILITY	3,800 SM	7,100
690-000	PROCUREMENT FACILITY	850 SM	1,400
831-155	INDUSTRIAL WASTEWATER TREATMENT FACILITIES	LS	5,000
		TOTAL:	13,500

9b. Future Projects: Typical Planned Next Three Years:

113-321	UPGRADE AIRCRAFT PARKING APRON	LS	6,400
721-312	DORMITORY	130 PN	4,300
721-312	ALTER DORMITORY	253 PN	4,200

10. Mission or Major Functions: An air refueling wing with four KC-135 squadrons and an Air Force Space Command missile group with three Minuteman III intercontinental ballistic missile squadrons with HH-1 helicopters which will be inactivated as a result of the 1995 Defense Base Closure and Realignment Commission's recommendation.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	DINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	722-351	JFSD959103	5,985

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DINING FACILITY	SM	2,570		4,158
DINING FACILITY	SM	1,750	1,800	(3,150)
TROOP ISSUE WAREHOUSE	SM	500	1,200	(600)
BASE COLD STORAGE	SM	140	1,500	(210)
FOOD SERVICE MANAGEMENT	SM	180	1,100	(198)
SUPPORTING FACILITIES				1,215
UTILITIES/PAVEMENTS/SITE IMPROVEMENTS	LS			(705)
DEMOLITION/ASBESTOS REMOVAL	SM	2,050	239	(490)
RELOCATE SOFTBALL FIELD	EA	1	20,000	(20)
SUBTOTAL				5,373
CONTINGENCY (5%)				269
TOTAL CONTRACT COST				5,642
SUPERVISION, INSPECTION AND OVERHEAD (6%)				339
TOTAL REQUEST				5,981
TOTAL REQUEST (ROUNDED)				5,985
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(600)

10. Description of Proposed Construction: Concrete foundation and floor slabs, masonry walls, roof trusses, standing seam metal sloped roof system. Includes space for food preparation, dining room, troop issue, cold storage, and food service management. Project relocates a softball field, demolishes two facilities ,and includes site improvements and all necessary support.
Air Conditioning: 528 KW.

11. REQUIREMENT: 2,570 SM ADEQUATE: 0 SUBSTANDARD: 2,050 SM
PROJECT: Construct a dining facility. (Current Mission)
REQUIREMENT: This is a Level 1 Commander's Facility Assessment project. An adequately sized consolidated dining facility is required to prepare meals and to serve personnel in a relaxed environment. Space is also required for storage of perishable foods and commodities, troop issue, and food services management. A modern dining facility to attract and retain competent and highly skilled enlisted personnel is essential for maintaining an effective all-volunteer Air Force.
CURRENT SITUATION: Dining, cold storage, central distribution, and food service management areas are each located in separate substandard facilities creating span-of-control problems and inefficient operations. The existing dining facility is a substandard structure which is no longer cost effective to operate. The kitchen is not functionally laid-out to efficiently feed assigned enlisted personnel. A continuous series of sewage leaks beneath the dining and office areas has penetrated the soil, producing unpleasant odors. Attempts to control this problem have proved temporary due to the poor condition of the facility. The existing cold storage facility does not provide sufficient space for storage of required

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
DINING FACILITY	JFSD959103

War Readiness Material (WRM) rations. This shortage of space forces the use of unrefrigerated space and reduces the shelf life of stored goods from eight to four years. It also increases the cost of replenishment by $15,000 annually. Entryways to the cold storage facility are too narrow to allow palletized movement of rations which requires extensive manpower for breakdown and re-stacking. The central food distribution facility also has narrow hallways and doors which prohibit use of forklifts or pallet jacks to maneuver stored food items. The receiving dock is too small to handle large deliveries. Both facilities totalling 2,050 square meters will be demolished as part of this project.

IMPACT IF NOT PROVIDED: Unaccompanied enlisted personnel will continue to be served in a sub-standard dining facility which will have an adverse impact on their morale and well-being. Additionally, inefficient and costly operations will continue to prevail.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
DINING FACILITY	JFSD959103

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:

(a) Standard or Definitive Design - YES

(b) Where Design Was Most Recently Used - SCOTT

(3) Design Allowance 360

(4) Construction Start 97 MAR

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
REFRIGERATOR	3080	FY1997	400
CLIPPER	3080	FY1997	75
OVENS	3080	FY1997	15
STEAMER	3080	FY1997	4
STEAM KETTLE	3080	FY1997	6
PREWIRED WORK STATIONS	3400	FY1998	100

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.12.18	141-753	JFSD963501	6,485

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	SM	3,800	1,300	4,940
SUPPORTING FACILITIES				895
UTILITIES	LS			(360)
PAVEMENTS	LS			(165)
SITE IMPROVEMENTS	LS			(210)
ELEVATOR	EA	1	100,000	(100)
DEMOLITION	SM	275	218	(60)
SUBTOTAL				5,835
CONTINGENCY (5%)				292
TOTAL CONTRACT COST				6,127
SUPERVISION, INSPECTION AND OVERHEAD (6%)				368
TOTAL REQUEST				6,495
TOTAL REQUEST (ROUNDED)				6,485

10. Description of Proposed Construction: Two-story facility with concrete foundation, masonry walls with exterior brick veneer, sloped roof system, fire protection system, utilities, elevator, site improvements, parking, demolition, and necessary support.
Air Conditioning: 280 KW.

11. REQUIREMENT: As required.
PROJECT: Construct a KC-135 Squadron Operations/Aircraft Maintenance Unit (Sq Ops/AMU) facility. (New Mission)
REQUIREMENT: This project is required to consolidate Air Mobility operational squadrons by combining aircraft operators with flightline maintainers. The consolidation relocates flyers and maintainers out of undersized and separated facilities into a functional and adequately sized structure to support the beddown of 36 additional KC-135s. All 48 KC-135s are already in place at Grand Forks AFB. Space is required for Ops/AMU management support, briefing/debriefing, flight planning, training and testing, flying/ground safety, tool rooms, bench stock, mobility office, technical order library, standardization/evaluation, life support, locker rooms, and scheduling. In addition, an elevator is required to comply with the Americans With Disabilities Act of 1990. This consolidation is consistent with the Air Mobility Command initiative to bring the Sq Ops / AMU facilities up to minimum Air Force standards. These efficiencies are essential to maintain mission tasking rates in the Air Mobility Command.
CURRENT SITUATION: There are no adequate facilities to support KC-135 consolidated Sq Ops/AMU operations at Grand Forks AFB. Existing Sq Ops/AMU operations are conducted in four facilites which are substandard, inadequately sized, and not properly configured to accommodate unified

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	JFSD963501

aircraft operators and maintainers. They are widely scattered creating fragmented lines of communications and authority. Aircrews and aircraft maintainers must spend many hours away from their duty location in an effort to obtain parts, organizational and mobility equipment, and required training. One facility totalling 269 square meters will be demolished as a result of this project. The remaining three existing facilities will be reused as interim facilities for other requirements.
IMPACT IF NOT PROVIDED: Operations, maintenance, and support personnel will remain in undersized and physically separated buildings and will never develop the cohesiveness necessary to become an efficient and effective operational organization. Full implementation of the more effective Objective Wing squadron and adequate beddown of the KC-135s will not be possible. Essential squadron operations and logistic functions will continue to require additional work-arounds that will degrade mission performance.
ADDITIONAL: There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, addition/alteration, and new construction) was done. It indicates new construction is the only option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	JFSD963501

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	94 MAR 29
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	94 AUG 19
(e)	Date Design Complete	96 AUG 30
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	GRAND FO
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	120
(b)	All Other Design Costs	100
(c)	Total	220
(d)	Contract	19
(e)	In-house	201
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MINOT AIR FORCE BASE, NORTH DAKOTA	AIR COMBAT COMMAND	1.10

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	725	4455	549				3	5	70	5,807
b. End FY 2001	720	4432	554				3	5	70	5,784

7. INVENTORY DATA ($000)

a. Total Acreage: (5,383)	
b. Inventory Total As Of: (30 SEP 95)	300,655
c. Authorization Not Yet In Inventory:	11,250
d. Authorization Requested In This Program:	3,940
e. Authorization Included In Following Program: (FY 1998)	2,500
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	74,150
h. Grand Total:	392,495

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
411-134	UNDERGROUND FUEL STORAGE TANKS MISSILE FACILITIES	64 EA	3,940	FEB 95	JUL 96
		TOTAL:	3,940		

9a. Future Projects: Included in the Following Program (FY 1998)

214-426	ADD TO VEHICLE MAINTENANCE/ CORROSION CONTROL FACILITY	1,550 SM	2,500
		TOTAL:	2,500

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A bomb wing with one B-52H squadron and an Air Force Space Command missile group with three Minuteman III intercontinental ballistic missile squadrons and HH-1H aircraft, converting to UH-1Ns in FY 96/4.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	19,190
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MINOT AIR FORCE BASE, NORTH DAKOTA	UNDERGROUND FUEL STORAGE TANKS MISSILE FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	411-134	QJVF972500	3,940

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UNDERGROUND FUEL STORAGE TANKS MISSILE FACILITIES	EA	64		1,827
REMOVE UNDERGROUND STORAGE TANKS	EA	40	9,600	(384)
REPLACE UNDERGROUND STORAGE TANKS	EA	40	26,900	(1,076)
UPGRADE UNDERGROUND STORAGE TANKS	EA	24	15,300	(367)
SUPPORTING FACILITIES				1,570
MOBILIZATION/SECURITY	EA	64	3,828	(245)
SOIL REMEDIATION	EA	64	15,234	(975)
SITE IMPROVEMENTS	EA	64	5,469	(350)
SUBTOTAL				3,397
CONTINGENCY (10%)				340
TOTAL CONTRACT COST				3,737
SUPERVISION, INSPECTION AND OVERHEAD (6%)				224
TOTAL REQUEST				3,961
TOTAL REQUEST (ROUNDED)				3,940

10. Description of Proposed Construction: Remove 40 underground fuel storage tanks. Replace with 40 double-wall tanks, interstitial leak detectors, double-walled piping and spill/overfill protection. Dispose of tank residue and contaminated soil as required at each site. Upgrade 24 existing tanks to include tank lining, new piping, leak detection, and spill/overfill protection. Project includes all necessary support.

11. REQUIREMENT: 180 EA ADEQUATE: 116 EA SUBSTANDARD: 64 EA

PROJECT: Remove, replace and upgrade underground fuel storage tanks (USTs). (Current Mission)

REQUIREMENT: This is a Level II environmental compliance requirement. This project is required upgrade or replace all underground storage tanks regulated by 40 CFR 280 to new standards by December 1998. The Environmental Protection Agency (EPA) has established standards that require all regulated underground storage tanks have leak detection, corrosion protection, and overfill/spill prevention systems. If USTs are to be replaced, Air Force policy is to replace them with aboveground tanks or to relocate them into underground vaults wherever possible. However, existing underground petroleum product storage tanks which are in good condition and may be upgraded in-place must be brought into compliance with applicable UST standards.

CURRENT SITUATION: Underground storage tanks at Minot AFB missile facilities do not meet federal/state law (40 CFR 280.21) for cathodic protection, leak detection monitoring and overfill/spill protection. These deficiencies must be corrected to prevent violation of UST regulations. Currently, 64 USTs at missile launch and launch control facilities require upgrade or replacement to meet the 1998 deadline. The unit costs for this project are higher than other locations due to the

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MINOT AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
UNDERGROUND FUEL STORAGE TANKS MISSILE FACILITIES	QJVF972500

deep buried nature of the tanks. Launch facility tanks will be permanently closed in place and replaced by new double-walled tanks in accordance with a pending compliance agreement between the Air Force and the EPA.

IMPACT IF NOT PROVIDED: Failure to replace these tanks at Minot AFB will result in an unacceptable risk of pollution. Additionally, Minot AFB will not be in compliance with federal/state environmental requirements thereby subjecting the base to enforcement action and monetary penalties. If this project is not accomplished by the established deadline, the base will be in violation of the law and subject to receiving Notices of Violation, fines and significant adverse publicity.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in the Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MINOT AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
UNDERGROUND FUEL STORAGE TANKS MISSILE FACILITIES	QJVF972500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 FEB 06
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 SEP 15
(e)	Date Design Complete	96 JUL 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	144
(b)	All Other Design Costs	
(c)	Total	144
(d)	Contract	
(e)	In-house	144
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
WRIGHT-PATTERSON AIR FORCE BASE, OHIO	AIR FORCE MATERIEL COMMAND	0.89

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	3607	3027	12788				81	138		19,641
b. End FY 2001	3311	3020	12002				81	138		18,552

7. INVENTORY DATA ($000)

a. Total Acreage: (8,145)	
b. Inventory Total As Of: (30 SEP 95)	854,606
c. Authorization Not Yet In Inventory:	76,670
d. Authorization Requested In This Program:	7,400
e. Authorization Included In Following Program: (FY 1998)	27,200
f. Planned In Next Three Program Years:	15,350
g. Remaining Deficiency:	150,500
h. Grand Total:	1,131,726

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-851	ADD TO AND ALTER ENGINEERING AND RESEARCH LABORATORY	LS	7,400	FEB 95	SEP 96
		TOTAL:	7,400		

9a. Future Projects: Included in the Following Program (FY 1998)

310-921	CONSOLIDATE TOXIC HAZARDS LABORATORY	5,400 SM	13,800	
311-173	RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE-2A	9,290 SM	13,400	
		TOTAL:	27,200	

9b. Future Projects: Typical Planned Next Three Years:

311-173	RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE I	7,750 SM	10,600	
411-135	FUEL CONTAINMENT DIKES	LS	600	TURN KEY
821-116	UPGRADE HEAT PLANT EMISSION CONTROL SYSTEM	LS	4,150	

10. Mission or Major Functions: Headquarters Air Force Materiel Command; an air base wing with C-21A aircraft: Air Force Security Assistance Center;Aeronautical Systems Center with Wright Laboratory; Materiel System Group; Joint Logistic Systems Center; Air Force Institute of Technology; Air Intelligence Agency's National Air Intelligence Center; Air Force Reserve airlift wing with two C-141B squadrons; Air Force Museum; and a major USAF medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	4,200
b. Water pollution:	2,000
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WRIGHT-PATTERSON AIR FORCE BASE, OHIO	ADD TO AND ALTER ENGINEERING AND RESEARCH LABORATORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.57.96	171-851	ZHTV953077	7,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER ENGINEERING AND RESEARCH LABORATORY	LS			4,927
ADDITION	SM	3,250	1,500	(4,875)
ALTERATION	LS			(52)
SUPPORTING FACILITIES				1,755
UTILITIES/PAVEMENTS	LS			(600)
SITE IMPROVEMENTS	LS			(350)
DEMOLITION/ASBESTOS REMOVAL & DISPOSAL	SM	4,650	130	(605)
COMMUNICATION/EMCS	LS			(200)
SUBTOTAL				6,682
CONTINGENCY (5%)				334
TOTAL CONTRACT COST				7,016
SUPERVISION, INSPECTION AND OVERHEAD (6%)				421
TOTAL REQUEST				7,437
TOTAL REQUEST (ROUNDED)				7,400
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(150)

10. Description of Proposed Construction: Poured concrete foundation and floor slab, steel beam and column frame, metal deck/built-up roof, concrete and masonry walls, fire protection, hazardous fume ventilation, hazardous material plumbing, pavement repairs and parking. Alter existing facility to accomodate new addition. Provide 25 pre-wired workstations. Demolish one wing of the existing engineering and research facility. Air Conditioning: 1380 KW.

11. REQUIREMENT: 52,734 SM ADEQUATE: 23,247 SM SUBSTANDARD: 26,600 SM
PROJECT: Add to and alter engineering and research laboratory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. The Air Force Institute of Technology (AFIT) is an accredited institution, which annually grants approximately 260 Masters and 36 PhDs. AFIT requires a facility for faculty and student educational research efforts in electronics materials, integrated circuit fabrication, plasma/nuclear/particle physics, and aero/astronautics. These research efforts involve hazardous processes and the handling of hazardous waste which must be segregated from the general student population. These laboratories are essential to AFIT'S primary mission of providing quality graduate education. They are not part of the Air Force lab structure and their function is not related to any other laboratory consolidation effort.
CURRENT SITUATION: Critical laboratory functions are housed in various substandard World War II facilities which pose an environmental and safety threat to adjacent AFIT and base populations. A major hazard exists in the materials research and integrated circuit fabrication facility which

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
WRIGHT-PATTERSON AIR FORCE BASE, OHIO	
4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER ENGINEERING AND RESEARCH LABORATORY	ZHTV953077

is surrounded by an administrative area. These processes involve the use of explosive materials which generate odors, fumes, hazardous liquid and solid waste, and require clean rooms and isolation platforms not currently available. The physics and laser research labs are located in an area surrounded by classrooms and offices. Since the facility was constructed, the work has grown more hazardous due to the use of increasingly more toxic substances. Further, the requirements for handling these toxic materials has increased. In addition to the hazards, space limitations hinder research efforts by not permitting complete use of thousands of dollars of research equipment affecting the institute's ability to conduct quality research and meet educational requirements. The current labs lack adequate ventilation, central gas and water systems, sufficient power and lighting, and heating/cooling. Throughout the institute, equipment sits idle because other research activities interfere or adequate power is not available. Often students & faculty cannot perform tests or must perform them at night to avoid conflict with other activities/experiments. Despite decreasing budgets, research funded by outside agencies has increased, and is expected to continue, as the need to educate a smaller force intensifies. Upon completion of this project one wing of an existing engineering and research facility totaling 4,650 SM will be demolished.

IMPACT IF NOT PROVIDED: Loss of accreditation is possible if we are unable to maintain a state of the art laboratory capability. Fifteen hundred people will continue to be exposed to the high risk of an environmental or safety mishap. The school may be forced to terminate research training in a number of critical military technologies including semiconductor materials and microelectronic circuits, photonics, pulse power, air breathing propulsion, weapons systems environment, and high energy density materials.

ADDITIONAL: There is no criteria for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". The scope of this project was developed with participation by AFIT faculty and is based on similar civilian institute laboratories and test equipment supported. An economic analysis has been prepared comparing the alternatives of new construction, revitalization and status quo operation. Based on the net present values and benefits of the respective alternatives, the construction of a new addition was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER ENGINEERING AND RESEARCH LABORATORY	ZHTV953077

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 FEB 20
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 NOV 06
(e)	Date Design Complete	96 SEP 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	440
(b)	All Other Design Costs	319
(c)	Total	759
(d)	Contract	513
(e)	In-house	246
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PREWIRED WORK STATIONS	3400	FY1998	150

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
TINKER AIR FORCE BASE, OKLAHOMA	AIR FORCE MATERIEL COMMAND	0.92

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1356	6007	11219					851		19,433
b. End FY 2001	1177	5814	10959					851		18,801

7. INVENTORY DATA ($000)

a. Total Acreage: (4,808)	
b. Inventory Total As Of: (30 SEP 95)	693,761
c. Authorization Not Yet In Inventory:	62,472
d. Authorization Requested In This Program:	9,880
e. Authorization Included In Following Program: (FY 1998)	3,200
f. Planned In Next Three Program Years:	33,200
g. Remaining Deficiency:	124,100
h. Grand Total:	926,613

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
214-425	CONSOLIDATED VEHICLE MAINTENANCE/METALS FACILITIES	15,800 SM	9,880	TURN KEY	
		TOTAL:	9,880		

9a. Future Projects: Included in the Following Program (FY 1998)

211-177	ADD/ALTER AIRCRAFT HANGAR	LS	3,200
		TOTAL:	3,200

9b. Future Projects: Typical Planned Next Three Years:

123-335	VEHICLE FUELING STATION	8 OL	850
210-944	ADD TO AND ALTER BASE ENGINEER COMPLEX PHASE II	9,800 SM	7,200
211-254	FUEL CONTROL ASSEMBLY OVERHAUL FACILITY	8,500 SM	13,200
610-287	ENGINEERING AND INSTALLATION FACILITY	6,600 SM	8,800
880-000	FIRE & OTHER ALARM SYSTEMS	2,300 SM	1,000

10. Mission or Major Functions: Oklahoma City Air Logistics Center which is responsible for logistics management, support, and depot-level maintenance of B-1, B-2, B-52, and KC-135 aircraft, and aircraft engines; an air base wing; an Air Combat Command air control wing with three E-3 airborne air control squadrons and an EC-135 airborne command and control squadron; an AFRES air refueling wing with one KC-135 squadron; an ACC communications group; and an engineering installation wing. A major tenant is the US Navy TACAMO wing (E-6 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,500
b. Water pollution:	2,900
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TINKER AIR FORCE BASE, OKLAHOMA	CONSOLIDATED VEHICLE MAINTENANCE/METALS FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.96	214-425	WWYK953005	9,880

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED VEHICLE MAINTENANCE/METALS FACILITIES	SM	15,800		5,900
VEHICLE MAINTENANCE FACILITY	SM	4,800	1,000	(4,800)
ALTERATION METALS FACILITY	SM	11,000	100	(1,100)
SUPPORTING FACILITIES				2,990
UTILITIES	LS			(375)
PAVEMENTS/SITE IMPROVEMENTS	LS			(400)
PAINT BOOTH	SM	220	1,705	(375)
WASH RACK	LS			(100)
DEMOLITION/ASBESTOS REMOVAL	SM	14,500	120	(1,740)
SUBTOTAL				8,890
CONTINGENCY (5%)				445
TOTAL CONTRACT COST				9,335
SUPERVISION, INSPECTION AND OVERHEAD (6%)				560
TOTAL REQUEST				9,895
TOTAL REQUEST (ROUNDED)				9,880

10. Description of Proposed Construction: Concrete foundation, floor slab, steel framing, concrete masonry unit walls and sloped metal roof; includes vehicle lifts, compressed air systems and vehicle staging lot. Alterations will convert vacated space to a metals shop with all required utilities, environmental and mechanical systems. Includes demolition of two buildings (14,500 SM), asbestos removal and necessary support. Air Conditioning: 150 KW.

11. REQUIREMENT: 15,800 SM ADEQUATE: 0 SUBSTANDARD: 25,400 SM
PROJECT: Construct a consolidated vehicle maintenance/metals facilities. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. Consolidation of depot maintenance activities is required to increase productivity and reduce facility maintenance and utility costs. This consolidation is consistent with programmed reductions in depot activities over the next five years. A consolidated depot metals repair and fabrication shop is required for the repair and replacement of aircraft structural components, aircraft surface metals, and plant supporting structures. Adequate vehicle maintenance activities require a properly configured, equipped, and sized facility for the maintenance, repair and management of the 2,000 vehicles on base.
CURRENT SITUATION: Depot metals shop functions are currently dispersed in two wooden buildings built in 1942 and 1943. These buildings are structurally unsound and have inadequate mechanical and utility systems. Parts movement is costly and existing facility configurations do not contribute to an efficient operation. Duplicate shop equipment at various locations must be maintained to repair and fabricate similar products.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

4. PROJECT TITLE	5. PROJECT NUMBER
CONSOLIDATED VEHICLE MAINTENANCE/METALS FACILITIES	WWYK953005

The roofs of these metals shops leak and the buildings waste energy because of the lack of proper insulation and extensive use of glass. Consolidation will allow co-utilization of equipment and a net reduction of facility space. The existing vehicle maintenance facility is structurally sound, but is poorly configured and cannot be economically renovated for use as a vehicle maintenance shop. The utility systems are inadequate and the building cannot accommodate cranes and lifts required for vehicle engine repairs. However, with alteration this facility is adequate for use as a consolidated metals and fabrication shop. Upon completion of this project, two facilities with 14,600 SM will be demolished.

IMPACT IF NOT PROVIDED: Separate metals/fabrication shops will continue to duplicate operations. Maintenance and repair cost will continue to escalate to keep these facilities operational. The opportunity to support downsizing and consolidation efforts and increase production efficiency will be lost.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, a combination of new construction and revitalization was found to be the most cost efficient over the life of the project. BASE CIVIL ENGINEER: Col Robert L Bartlow, (405) 734-3451.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

4. PROJECT TITLE	5. PROJECT NUMBER
CONSOLIDATED VEHICLE MAINTENANCE/METALS FACILITIES	WWYK953005

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 100

(4) Construction Start 96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	AIR MOBILITY COMMAND	0.85

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 95	537	3607	1027				32	180		5,383
b. End FY 2001	495	3496	998				32	180		5,201

7. INVENTORY DATA ($000)

a. Total Acreage: (3,733)	
b. Inventory Total As Of: (30 SEP 95)	160,413
c. Authorization Not Yet In Inventory:	36,600
d. Authorization Requested In This Program:	37,410
e. Authorization Included In Following Program: (FY 1998)	24,450
f. Planned In Next Three Program Years:	14,300
g. Remaining Deficiency:	89,400
h. Grand Total:	362,573

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
121-122	C-17 ADD TO AND ALTER APRON/ HYDRANT FUELING SYSTEM		LS	13,170	APR 93	MAY 96
141-753	C-17 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	2,850	SM	5,685	NOV 94	JAN 96
211-153	C-17 ADD TO AND ALTER AIRCRAFT MAINTENANCE AND NDI SHOP	5,775	SM	4,590	JUN 93	MAY 96
211-173	C-17 AIRCRAFT MAINTENANCE FACILITY	2,450	SM	5,785	JAN 95	FEB 96
721-312	DORMITORY	148	PN	8,180	JUL 95	JUL 96
		TOTAL:		37,410		

9a. Future Projects: Included in the Following Program (FY 1998)

411-135	IMPROVE JET FUEL STORAGE		LS	1,500
442-758	BASE SUPPLY WAREHOUSE	18,000	SM	15,500
730-773	ADD TO AND ALTER CHAPEL CENTER	2,500	SM	3,450
851-147	IMPROVE ROAD		LS	4,000
		TOTAL:		24,450

9b. Future Projects: Typical Planned Next Three Years:

130-142	FIRE/CRASH RESCUE STATION	450	SM	1,100
141-165	EXPLOSIVE ORDNANCE DISPOSAL	400	SM	400
442-758	REPAIR BASE SUPPLIES & EQUIP WHSE	19,400	SM	12,800

10. Mission or Major Functions: An airlift wing with four C-141/C-17 squadrons; an Air Force Reserve C-141/C-17 associate airlift wing; an Air National Guard air defense detachment with F-16 aircraft; a combat camera squadron; and the USAF Mobility Center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	1,200
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	C-17 ADD TO AND ALTER AIRCRAFT MAINTENANCE AND NDI SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	211-152	DKFX953031	4,590

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 ADD TO AND ALTER AIRCRAFT MAINTENANCE AND NDI SHOP	SM	5,775		3,553
ADDITION	SM	275	920	(253)
ALTERATION	SM	5,500	600	(3,300)
SUPPORTING FACILITIES				370
UTILITIES	LS			(165)
SITE IMPROVEMENTS	LS			(60)
INTERIM FACILITIES	LS			(145)
SUBTOTAL				3,923
CONTINGENCY (10%)				392
TOTAL CONTRACT COST				4,315
SUPERVISION, INSPECTION AND OVERHEAD (6%)				259
TOTAL REQUEST				4,574
TOTAL REQUEST (ROUNDED)				4,590

10. Description of Proposed Construction: Addition includes reinforced concrete foundation and floor slab, masonry exterior walls, structural steel framing, fire detection/alarm/suppression system, and necessary support. Alterations include reconfiguring maintenance space, upgrade of lighting, electrical, and mechanical systems, a fire detection/alarm/ suppression system, and necessary support. Includes interim facilities.

11. REQUIREMENT: 7,080 SM ADEQUATE: 1,305 SM SUBSTANDARD: 5,300 SM

PROJECT: Add to and alter C-17 aircraft maintenance and non-destructive inspection (NDI) shop. (New Mission)

REQUIREMENT: An adequately sized and configured high-bay facility is required to provide space for specialized maintenance activities to support the beddown of the C-17 aircraft. The first C-17s arrived in 1993 and will total 40 by September 1998. Space is required for fabrication, aerospace systems repair, corrosion control, corrosion control media blaster, welding, non-destructive inspection and composite repair of the C-17 aircraft. This project will provide a high-bay aircraft maintenance facility/NDI shop to support requirements associated with the beddown of 40 C-17 aircraft. Interim facilities are required to house the building occupants during this alteration/addition project.

CURRENT SITUATION: The existing general purpose aircraft maintenance shop is 29-years-old. Inefficiencies include inadequate lighting, electrical, and mechanical systems, lack of storage and properly configured maintenance space as well as required fire detection, alarm and suppression systems. Current maintenance space configuration is designed to support C-141 aircraft. Since the C-17 aircraft components are larger than similar C-141 components, the existing maintenance area must be reconfigured to provide the required safety clearance distances between

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 ADD TO AND ALTER AIRCRAFT MAINTENANCE AND NDI SHOP	DKFX953031

the larger C-17 aircraft and the maintenance equipment. Manpower intensive and inefficient workarounds are currently performed in a cramped space and outdoors on the airfield ramp. Because both aircraft, the C-17s and C-141s will be maintained at Charleston for several years, there are no other available facilities to support the C-17 maintenance requirements.

IMPACT IF NOT PROVIDED: Adequate aircraft maintenance and NDI operations cannot be performed which will overshadow the programmed utilization rates for the new C-17 aircraft.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, addition/alteration and new construction) was done. It indicates this project is the only option that will meet this requirement. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 ADD TO AND ALTER AIRCRAFT MAINTENANCE AND NDI SHOP	DKFX953031

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	93 JUN 15
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	94 FEB 08
(e)	Date Design Complete	96 MAY 06
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	225
(b)	All Other Design Costs	244
(c)	Total	469
(d)	Contract	379
(e)	In-house	90
(4)	Construction Start	97 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	721-312	DKFX973300	8,180

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (148 PN)	SM	4,900	1,000	4,900
SUPPORTING FACILITIES				2,450
UTILITIES	LS			(575)
SITE IMPROVEMENTS	LS			(250)
PAVEMENTS	LS			(350)
DEMOLITION/ASBESTOS REMOVAL/DISPOSAL	SM	7,500	170	(1,275)
SUBTOTAL				7,350
CONTINGENCY (5%)				368
TOTAL CONTRACT COST				7,718
SUPERVISION, INSPECTION AND OVERHEAD (6%)				463
TOTAL REQUEST				8,181
TOTAL REQUEST (ROUNDED)				8,180

10. Description of Proposed Construction: A three-story structure with reinforced concrete foundation and floor slabs, masonry walls, roof, and fire protection. Site work to improve drainage and provide appropriately landscaped "green area" within the dorm capus. Includes room-bath-room modules, laundries, storage and lounge areas, and all necessary support. Includes demolition of seven facilities.
Air Conditioning: 210 KW. Grade Mix: 148 E1-E4.
Maximum Utilization: 148 Personnel

11. REQUIREMENT: 852 PN ADEQUATE: 576 PN SUBSTANDARD: 368 PN
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment project. It is a major Air Force objective to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: There are currently not enough adequate dormitories to accommodate the unaccompanied enlisted personnel at this installation. The Facilities to be replaced have inadequate lighting, poor insulation and insufficient sound attenuation, and are plagued with obsolete electrical and mechanical systems. Both dormitory facilities do not conform to current standards of seismic design and fire protection. Seven facilities (7,500 SM), including two dormitories (76 rooms and 2,350 SM each) built in 1956 will be demolished as a part of this project to provide site clearance/access and an open "green area" within the dorm campus.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	DKFX973300

IMPACT IF NOT PROVIDED: Substandard living conditions will persist degrading morale, productivity, and career satisfaction for the enlisted personnel. Excessive energy consumption and maintenance costs will continue if these inefficiencies and substandard facilities remain in use.
ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	DKFX973300

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 JUL 14
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	50%
(d) Date 35% Designed.	95 AUG 01
(e) Date Design Complete	96 JUL 29
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	320
(b) All Other Design Costs	260
(c) Total	580
(d) Contract	460
(e) In-house	120
(4) Construction Start	96 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	C-17 AIRCRAFT MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	211-173	DKFX963031	5,785

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 AIRCRAFT MAINTENANCE FACILITY	SM	2,450	1,300	3,185
SUPPORTING FACILITIES				2,015
UTILITIES	LS			(225)
PAVEMENTS	LS			(715)
SITE IMPROVEMENTS	LS			(375)
DEMOLITION	SM	1,900	76	(145)
FIRE PROTECTION SYSTEM	LS			(300)
APRON AND TAXIWAY	LS			(255)
SUBTOTAL				5,200
CONTINGENCY (5%)				260
TOTAL CONTRACT COST				5,460
SUPERVISION, INSPECTION AND OVERHEAD (6%)				328
TOTAL REQUEST				5,788
TOTAL REQUEST (ROUNDED)				5,785

10. Description of Proposed Construction: Construct a high bay aircraft maintenance facility. Includes reinforced concrete foundation and floor slab, structural steel framing, metal siding, aqueous film forming foam (AFFF) system with exterior discharge holding tank, utilities, apron, taxiway, demolition and other necessary support.

11. REQUIREMENT: 16,726 SM ADEQUATE: 4,240 SM SUBSTANDARD: 3,789 SM
PROJECT: Construct a C-17 aircraft maintenance facility. (New Mission)
REQUIREMENT: An adequate high bay maintenance facility is required to support the beddown of the C-17 aircraft at Charleston. The first C-17s arrived in 1993 and will total 40 by September 1998. Space is required for the inspection, repair and maintenance workload generated by these new aircraft. This project will provide an aircraft maintenance facility required to support maintenance requirements associated with the beddown of 40 C-17 aircraft.
CURRENT SITUATION: There are insufficient maintenance facilities at Charleston to meet the physical dimensions, utilities and equipment requirements for the C-17. The aircraft and support equipment needed to work on the aircraft cannot fit into existing hangars without violating minimum aircraft safety and clearance standards. Existing facilities were constructed in 1959, sized for smaller C-141 aircraft, and lack required fire protection, safety and environmental health systems. One substandard facility totalling 1,900 SM will be demolished upon completion of this project. The remaining 1,889 SM of existing substandard space will be demolished in conjunction with a future project which is needed to meet the requirement of maintenance facilities.
IMPACT IF NOT PROVIDED: Adequate aircraft maintenance operations cannot be performed on the new C-17 aircraft at this base. It will not be

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 AIRCRAFT MAINTENANCE FACILITY	DKFX963031

possible to meet the programmed utilization rates for the aircraft unless required maintenance space is constructed.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, addition/alteration, new construction) was done. It indicates new construction is the only option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 AIRCRAFT MAINTENANCE FACILITY	DKFX963031

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JAN 10
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	95 MAR 15
(e)	Date Design Complete	96 FEB 24
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	CHARLEST
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	226
(b)	All Other Design Costs	212
(c)	Total	438
(d)	Contract	350
(e)	In-house	88
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	C-17 ADD TO AND ALTER APRON/ HYDRANT FUELING SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	113-321	DKFX953030	13,170

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 ADD TO AND ALTER APRON/ HYDRANT FUELING SYSTEM	LS			8,072
ALTER/ADD FUELING SYSTEM/OUTLETS	OL	8	265,000	(2,120)
ADD TO APRON/AIRFIELD PAVEMENTS	SM	93,000	64	(5,952)
SUPPORTING FACILITIES				3,220
SITE IMPROVEMENTS	LS			(295)
DEMOLITION	SM	69,000	11	(760)
UTILITIES	LS			(175)
SOIL REMEDIATION	LS			(1,990)
SUBTOTAL				11,292
CONTINGENCY (10%)				1,129
TOTAL CONTRACT COST				12,421
SUPERVISION, INSPECTION AND OVERHEAD (6%)				745
TOTAL REQUEST				13,166
TOTAL REQUEST (ROUNDED)				13,170

10. Description of Proposed Construction: Demolish existing refueling pumphouse No 3, piping, pavements and pumps. Alter existing fueling system to Type III constant pressure system to accept eight new fuel pits. Add new concrete pavement for aircraft parking. Provide new electrical grounding system, overlay pavements, and provide site improvements. Project includes the removal and disposal of contaminated soil.

11. REQUIREMENT: 33 OL ADEQUATE: 25 OL SUBSTANDARD: 29 OL

PROJECT: Add to and alter C-17 apron/hydrant fueling system. (New Mission)

REQUIREMENT: Add new concrete to the existing main aircraft parking ramp to provide parking and refueling space for eight C-17 aircraft. Add/alter aircraft refueling system to support these new spaces and allow for a total beddown of 40 C-17 aircraft. The first C-17s arrived in 1993 and will total 40 by September 1998. This system will provide the aircraft parking and refueling capacity to meet the short turn-around times necessary to meet mission requirements. Refueling during peacetime cannot exceed the maximum in-route ground time of 2 hours and 15 minutes per AMC regulation 55-53. During contingency operations refueling standards are one hour per aircraft. Extensive environmental clean-up is required to remediate fuel-contaminated soil caused by previous underground fuel pipeline leaks.

CURRENT SITUATION: MILCON projects in FY92 and FY93 provided 15 and 10 parking/refueling spaces respectively along with the required back-up power and fuel storage tanks. This project provides the final 8 spaces and associated refueling pits to beddown the C-17 aircraft. The existing pavement is not wide enough and in very poor condition to support the C-17s. Due to the longer wing tip clearance of the C-17, the existing

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 ADD TO AND ALTER APRON/ HYDRANT FUELING SYSTEM	DKFX953030

main ramp/apron does not provide the total aircraft parking spaces required to support the C-17 beddown. The existing refueling system in this area is 29-years-old, in poor condition, and cannot refuel more than one aircraft per lateral. To attempt to refuel by truck would take in excess of four hours and would not meet the operational requirements.
IMPACT IF NOT PROVIDED: The primary mission will be impaired. Aircraft will be required to park/operate on an overcrowded and a deteriorated ramp creating a foreign object damage hazard. Without this project the requirements for refueling trucks and personnel will increase and unacceptable aircraft turn-around times over four hours will occur. Cost of the additional manpower and additional trucks would exceed $37 million over the next thirty years.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, add/alter, new construction, and all truck refueling) was done. It indicates this project is the only option that will meet this requirement. Because of this a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 ADD TO AND ALTER APRON/ HYDRANT FUELING SYSTEM	DKFX953030

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	93 APR 15
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	60%
(d) Date 35% Designed.	95 MAR 15
(e) Date Design Complete	96 MAY 27
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	CHARLEST
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	400
(b) All Other Design Costs	124
(c) Total	524
(d) Contract	
(e) In-house	524
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	C-17 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	141-753	DKFX963034	5,685

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FACILITY	SM	2,850	1,200	3,420
SUPPORTING FACILITIES				1,695
UTILITIES	LS			(525)
PAVEMENTS	LS			(400)
SITE IMPROVEMENTS	LS			(350)
DEMOLITION/ASBESTOS REMOVAL/DISPOSAL	SM	800	400	(320)
ELEVATOR	EA	1	100,000	(100)
SUBTOTAL				5,115
CONTINGENCY (5%)				256
TOTAL CONTRACT COST				5,371
SUPERVISION, INSPECTION AND OVERHEAD (6%)				322
TOTAL REQUEST				5,693
TOTAL REQUEST (ROUNDED)				5,685

10. Description of Proposed Construction: Two-story facility with concrete foundation, masonry walls with exterior brick veneer, sloped roof system, fire protection system, utilities, elevator, demolition, asbestos removal/disposal, site improvements/parking, and necessary support. Air Conditioning: 230 KW.

11. REQUIREMENT: As required.
PROJECT: Construct a C-17 Squadron Operations/Aircraft Maintenance Unit (Sq Ops/AMU) facility. (New Mission)
REQUIREMENT: This project is required to consolidate Air Mobility operational squadrons by combining aircraft operators with flightline maintainers. The consolidation relocates flyers and maintainers out of undersized, dispersed, and interim facilities into a functional and adequately sized structure to support the beddown of the C-17 aircraft. The first C-17s arrived in 1993 and will total 40 by September 1998. Space is required for Ops/AMU management support, briefing/debriefing, flight planning, training and testing, flying/ground safety, tool rooms, bench stock, standardization/evaluation, locker rooms, mobility office, scheduling, and a techical order library. In addition, an elevator is required to comply with the Americans With Disabilities Act of 1990. This consolidation is consistent with the Air Mobility Command initiative to bring the Sq Ops/AMU facilities up to minimum Air Force standards. These efficiencies are essential to maintain mission tasking rates in the Air Mobility Command.
CURRENT SITUATION: The existing squadron operations and aircraft maintenance facilities were designed to support C-141 aircraft, and are undersized and not configured to support the unified squadrons and the

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	DKFX963034

larger C-17s. The squadron operations and maintenance personnel operate out of two small and physically separated buildings. The physical separation creates fragmented lines of communications/authority. They are overcrowded and inadequately configured to support the C-17 aircraft. Other inefficiencies include lack of space for planning, briefing, administration, storage and issue of parts, flying clothing and equipment. Upon completion of this project, one substandard facility totalling 800 SM will be demolished. Interim relocatable facilities have been purchased to support the new C-17 squadron operations/AMU facility requirements until this project is completed.

IMPACT IF NOT PROVIDED: Operations, maintenance, and support personnel will remain in undersized, physically separated, and interim facilities and will never develop the cohesiveness necessary to become an efficient and effective operational organization. Full implementation of the more effective Objective Wing squadron and adequate beddown of the C-17s will be degraded. The physical separation will continue to hamper the lines of authority and communications throughout the squadron. Essential squadron operations and logistic functions will continue to require additional work-arounds that will degrade mission performance.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, addition/alteration, and new construction) was done. It indicates new construction is the only option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	DKFX963034

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	94 NOV 15
(b)	Parametric Cost Estimates used to develop costs	N
(c)	Percent Complete as of Jan 1996	90%
(d)	Date 35% Designed.	95 JAN 15
(e)	Date Design Complete	96 JAN 25
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	CHARLEST
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	320
(b)	All Other Design Costs	194
(c)	Total	514
(d)	Contract	420
(e)	In-house	94
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
SHAW AIR FORCE BASE, SOUTH CAROLINA	AIR COMBAT COMMAND	0.79

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 95	723	4632	528				69	114	115	6,181
b. End FY 2001	705	4697	523				69	114	115	6,223

7. INVENTORY DATA ($000)

a. Total Acreage: (3,387)	
b. Inventory Total As Of: (30 SEP 95)	170,100
c. Authorization Not Yet In Inventory:	8,250
d. Authorization Requested In This Program:	5,665
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	80,660
h. Grand Total:	264,675

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
130-835	SECURITY POLICE OPERATIONS FACILITY	2,460 SM	3,300	SEP 95	SEP 96
832-266	UPGRADE SANITARY SEWER SYSTEM	LS	2,365	JAN 95	JUN 96
		TOTAL:	5,665		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Headquarters Ninth Air Force; a fighter wing with three F-16 squadrons, and an A/OA-10 squadron (projected to leave FY 96/4)

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	5,200
c. Occupational safety and health:	0
d. Other Environmental:	6,800

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHAW AIR FORCE BASE, SOUTH CAROLINA	SECURITY POLICE OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96C	130-835	VLSB953001	3,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SECURITY POLICE OPERATIONS FACILITY	SM	2,460		2,390
SECURITY POLICE OPERATIONS FACILITY	SM	2,300	1,000	(2,300)
CANINE KENNEL	SM	160	560	(90)
SUPPORTING FACILITIES				560
UTILITIES	LS			(225)
SITE IMPROVEMENTS	LS			(225)
DEMOLITION	SM	400	275	(110)
SUBTOTAL				2,950
CONTINGENCY (5%)				148
TOTAL CONTRACT COST				3,098
SUPERVISION, INSPECTION AND OVERHEAD (6%)				186
TOTAL REQUEST				3,284
TOTAL REQUEST (ROUNDED)				3,300

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame and masonry walls, metal roof system and fire protection. Includes an armory, administrative space, training classrooms, confinement and interview areas, mobility storage and a canine kennel. Includes utilities, site improvements, parking and all necessary support. Includes demolition of one substandard facilities. Air Conditioning: 210 KW.

11. REQUIREMENT: 2,460 SM ADEQUATE: 0 SUBSTANDARD: 3,025 SM
PROJECT: Construct a security police operations facility. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. Adequate space is required to conduct base law enforcement, resource protection and investigative (Defense Investigative Service (DIS) and Office of Special Investigations (OSI)) activities. A consolidated and centrally located facility is necessary to improve command and control and emergency response. Space is also required to house the security police mobility operations center, mobility storage, armory, confinement and interview areas, training areas, and canine kennel.
CURRENT SITUATION: Security activities are currently scattered across the base in five substandard facilities. This results in inefficient command and control of the workforce and degrades planning and coordination. Further, OSI and DIS operate out of separate facilities which are not co-located with the security police function further compounding coordination and integration problems. Additionally the Security Police Operations and mobility storage functions are currently occupying two buildings, originally constructed as airman dining facilities in 1953 and

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SHAW AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
SECURITY POLICE OPERATIONS FACILITY	VLSB953001

1958, located within the airmen dormitory community creating an incompatible land use situation. These facilities are inadequate in functional configuration and do not provide a conducive environment for conducting effective security police operations. This project includes the demolition of one substandard facilities totaling 400 SM.

IMPACT IF NOT PROVIDED: Security police and investigative activities will remain in separated and substandard facilities and will never develop the cohesiveness necessary to become an efficient and effective operation. The physical separation will continue to degrade the mission and hamper lines of authority and communication. Security police will continue to operate from an incompatible land use area. The cost to operate existing substandard facilities will escalate further straining the installations limited operations and maintenance budget.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SHAW AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
SECURITY POLICE OPERATIONS FACILITY	VLSB953001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 SEP 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	96 JAN 15
(e)	Date Design Complete	96 SEP 15
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	195
(b)	All Other Design Costs	115
(c)	Total	310
(d)	Contract	230
(e)	In-house	80
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHAW AIR FORCE BASE, SOUTH CAROLINA	UPGRADE SANITARY SEWER SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	832-266	VLSB953013	2,365

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE SANITARY SEWER SYSTEM	LS			1,689
REPAIR/REPLACE SANITARY SEWER LINES	LM	4,450	340	(1,513)
STORM WATER INLETS	EA	22	1,800	(40)
REPAIR/REPLACE MANHOLES	EA	85	1,600	(136)
SUPPORTING FACILITIES				340
UTILITIES	LS			(125)
PAVEMENTS	LS			(110)
SITE IMPROVEMENTS	LS			(105)
SUBTOTAL				2,029
CONTINGENCY (10%)				203
TOTAL CONTRACT COST				2,232
SUPERVISION, INSPECTION AND OVERHEAD (6%)				134
TOTAL REQUEST				2,366
TOTAL REQUEST (ROUNDED)				2,365

10. Description of Proposed Construction: Replace deteriorated sections of existing sanitary sewer lines and slip line as required; eliminate cross connections between sanitary sewer and storm drainage systems; replace/repair degraded manholes; replace pavements, parking lots, sidewalks and other site work as required; and dewater, shore and perform other necessary support as required.

11. REQUIREMENT: 5,800 LS ADEQUATE: 1,350 LS SUBSTANDARD: 4,450 LS

PROJECT: Upgrade sanitary sewer system. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. Shaw AFB must comply with the provisions of the South Carolina Department of Health and Environmental Control (DHEC) Water Control permit #SC0024970. The base currently operates under this lapsed permit which limits the monthly average flow to 4.54 MLD (million liters per day) for reporting purposes. A renewal of the permit (the comment period closed on 22 May 95) will place a daily average limit on the sanitary waste water discharge flow of 4.54 MLD based on the capacity of Shaw's federally owned treatment plant.

CURRENT SITUATION: The base sanitary sewer system has excessive infiltration and inflow (I & I) as documented in the Sewer System Evaluation Survey (SSES) completed in June 1995. The survey indicated a total wastewater plant flow of as much as 6.74 MLD using measurements taken during the three heaviest rain events during the survey period. This excessive I & I contributes to violations of limits established in the renewal to the DHEC water control permit. The renewal limits the flow to a daily average maximum of 4.54 MLD.

IMPACT IF NOT PROVIDED: Shaw AFB will be in noncompliance with the South Carolina DHEC Water Pollution Control permit due to excessive I & I during

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
SHAW AIR FORCE BASE, SOUTH CAROLINA	
4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE SANITARY SEWER SYSTEM	VLSB953013

significant rain storms. The base is becoming increasingly vulnerable to the imposition of enforcement action as it continues to remain in noncompliance with its discharge permits which could result in the base receiving a Notices of Violation (NOVs) and fines up to $25,000 per day per violation. Environmental noncompliance strains relations with the host community, creates an environmental threat, and can lead to additional enforcement actions in the form of monetary fines.
ADDITIONAL: There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known effective options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SHAW AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE SANITARY SEWER SYSTEM	VLSB953013

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 JAN 15
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	95 OCT 15
(e) Date Design Complete	96 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	160
(b) All Other Design Costs	80
(c) Total	240
(d) Contract	190
(e) In-house	50
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
ARNOLD AIR FORCE BASE, TENNESSEE	AIR FORCE MATERIEL COMMAND	0.90

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	65	49	177					1		292
b. End FY 2001	63	49	177					1		290

7. INVENTORY DATA ($000)

a. Total Acreage: (39,081)	
b. Inventory Total As Of: (30 SEP 95)	1,274,583
c. Authorization Not Yet In Inventory:	2,400
d. Authorization Requested In This Program:	6,781
e. Authorization Included In Following Program: (FY 1998)	28,500
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	97,200
h. Grand Total:	1,409,464

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
318-612	UPGRADE JET ENGINE AIR INDUCTION SYSTEM	90 LM	2,991	TURN KEY	
318-614	UPGRADE ENGINE TEST FACILITIES REFRIGERATION SYSTEM, PLANT C	LS	3,790	MAR 94	SEP 95
		TOTAL:	6,781		

9a. Future Projects: Included in the Following Program (FY 1998)

318-612	UPGRADE JET ENGINE AIR INDUCTION SYSTEM, PHASE II	116 LM	5,700		
826-123	CLOSED LOOP WATER COOLING SYS	LS	12,000		
831-155	WASTEWATER TREATMENT FACILITIES	LS	10,800		
		TOTAL:	28,500		

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Arnold Engineering Development Center which conducts research, development, testing, and evaluation in support of aerospace system acquisition. The complex of wind tunnels, jet and rocket engine test cells, space simulation chambers, and hyperballistic ranges is the largest in the US.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	2,000
b. Water pollution:	7,000
c. Occupational safety and health:	0
d. Other Environmental:	3,500

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ARNOLD AIR FORCE BASE, TENNESSEE	UPGRADE ENGINE TEST FACILITIES REFRIGERATION SYSTEM, PLANT C

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.80.56	318-614	ANZY973013	3,790

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE ENGINE TEST FACILITIES				
REFRIGERATION SYSTEM, PLANT C	LS			2,750
SUPPORTING FACILITIES				500
UTILITIES	LS			(300)
SITE IMPROVEMENTS	LS			(100)
ASBESTOS REMOVAL	LS			(100)
SUBTOTAL				3,250
CONTINGENCY (10%)				325
TOTAL CONTRACT COST				3,575
SUPERVISION, INSPECTION AND OVERHEAD (6%)				215
TOTAL REQUEST				3,790
TOTAL REQUEST (ROUNDED)				3,790

10. Description of Proposed Construction: Convert the Engine Test Facilities, Plant C, refrigeration systems from R-12 to R-134a refrigerant; retrofit systems to retain desired operational capability; provide refrigerant storage, valves, transfer piping, asbestos removal and necessary support.

11. REQUIREMENT: As required.
PROJECT: Upgrade engine test facilities refrigeration system, Plant C. (Current Mission)
REQUIREMENT: This is a level II environmental compliance requirement. This project is required to prevent the continued release of unacceptable levels of R-12 refrigerant, an ozone depleting chemical (ODC), into the atmosphere. This project eliminates the risk of mission shut-down of a nationally critical aircraft and missile turbine engine test facility due to non-availability or excessive replenishment costs for R-12 refrigerant. These facilities provide a unique test capability. Testing is critical for aircraft developmemt and production of F-22, B-2, and C-17 aircraft and for retrofit of current aircraft such as the F-15 and F-16. Ground testing at extremely cold and hot temperatures (minus 24 to plus 650 degress F) is required to simulate high altitude flight conditions critical to engine design and production decisions.
CURRENT SITUATION: The existing system has been maintained over time, but major component repair, upgrade, reconfiguration, and refrigerant conversion are now required to preclude continued release of ODC. Refrigeration plants which provide refrigerated air to 17 engine test cells at Arnold Air Force Base leaked 90,000 pounds (24 percent of plant capacity) of R-12 into the atmosphere last year. An emergency $1.0 million repair project using base operations and maintenance funds was

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ARNOLD AIR FORCE BASE, TENNESSEE

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE ENGINE TEST FACILITIES REFRIGERATION SYSTEM, PLANT C	ANZY973013

executed to stop this loss. Use of R-12 refrigerant is ending by international agreement and Executive Order by December 1995. Without R-12, the current refrigeration system cannot operate, preventing cold flight conditions in the engine test facilites. Conversion to R-134a, a non-ozone depleting refrigerant, will allow continued plant operation. Since mission test requirements preclude closure of all test facilities simultaneously, emergency funding of the first refrigeration plant, which services 13 engine test cells, was funded in the FY94 MILCON. The remaining two plants must be funded before the R-12 refrigerant supply/stockpile is exhausted. Plant B will be converted in the FY96 MILCON, and Plant C (this requirement) will be converted in the FY97 program. If all engine test cells were upgraded at the same time a complete loss of testing capability would ocur. Therefore, phasing is required to avoid degradation of mission capability. With the projected closure of the Naval Air Warfare Center, Aircraft Division at Trenton, New Jersey, all DoD ground testing of aircraft and missile propulsion systems over the full range of flight conditions must be conducted at Arnold AFB.
IMPACT IF NOT PROVIDED: The United States will lose all national capability to ground test propulsion systems at simulated flight conditions. This will result in major delays and cost increases for the development and testing of F-18 and F-22 aircraft, cruise missile propulsion systems, and improvements to existing propulsion systems.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ARNOLD AIR FORCE BASE, TENNESSEE

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE ENGINE TEST FACILITIES REFRIGERATION SYSTEM, PLANT C	ANZY973013

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	94 MAR 11
(b)	Parametric Cost Estimates used to develop costs	N
(c)	Percent Complete as of Jan 1996	100%
(d)	Date 35% Designed.	94 NOV 01
(e)	Date Design Complete	95 SEP 15
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	ARNOLD
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	200
(b)	All Other Design Costs	142
(c)	Total	342
(d)	Contract	225
(e)	In-house	117
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ARNOLD AIR FORCE BASE, TENNESSEE	UPGRADE JET ENGINE AIR INDUCTION SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.06	318-612	ANZY963001	2,991

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE JET ENGINE AIR INDUCTION SYSTEM	LM	90		2,403
REMOVE AND REPLACE 2.1M DIAMETER DUCT	LM	20	34,700	(694)
REMOVE AND REPLACE 1.5M DIAMETER DUCT	LM	45	26,900	(1,211)
REMOVE AND REPLACE 1.0M DIAMETER DUCT	LM	25	19,900	(498)
SUPPORTING FACILITIES				200
UTILITIES	LS			(150)
SITE IMPROVEMENTS	LS			(50)
SUBTOTAL				2,603
CONTINGENCY (10%)				260
TOTAL CONTRACT COST				2,863
SUPERVISION, INSPECTION AND OVERHEAD (6%)				172
TOTAL REQUEST				3,035
TOTAL REQUEST (ROUNDED)				2,991

10. Description of Proposed Construction: Replace selected carbon steel air supply ducting in the Engine Test Facility (ETF) plant A, with stainless steel ducting. Includes associated utility connections and site restoration.

11. REQUIREMENT: As required.
PROJECT: Upgrade a jet engine air induction system. (Current Mission)
REQUIREMENT: This is a Level 1 Commander's Facility Assessment requirement. This project eliminates contaminates in air supply ducting which provide high pressure, high temperature air to multi-million dollar wind tunnels at the Arnold Air Force Base Engine Test Facility (ETF). An adequate facility must be provided to simulate high altitude conditions for testing, evaluation and development of advanced gas turbine engines for F-16 and F-22 Tactical Fighter aircraft.
CURRENT SITUATION: The ETF is the only DoD facility which can fully test advanced gas turbine engines. The ETF was constructed in the early 1950s with air supply ducting and tubing made of mild carbon steel. These air ducts and tubes are now heavily corroded with iron-oxide (rust). Current advanced high-temperature gas turbine engines require extremely clean air during testing and future engine tests will require even higher temperatures and cleaner air. Increasing the temperature of air forced through the heavily corroded ETF ducting drastically increases the amount of rust particles released. The rust is ingested into the jet engines, covers turbine blades, melts, and then clogs cooling passages which are vital to engine performance. Several programs have been initiated to limit damage from corroded air supply ducts, but have only had limited success. Installation of stainless steel ducting and tubing in the Aeropropulsion Systems Test Facility (ASTF) constructed in the 1980's has

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ARNOLD AIR FORCE BASE, TENNESSEE

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE JET ENGINE AIR INDUCTION SYSTEM	ANZY963001

been the only alternative which proved to be successful and is the only acceptable long term solution. Many engines have already been damaged through ingestion of rust particles. The costs to repair damaged engines have ranged from $50K to $1.5M. The costs to repair an engine are only one facet of this problem; other factors include program delays and corrupted test data. Additional engine testing must subsequently be performed to determine if the rust masked or caused a problem. Once an engine is repaired, it can then take another three to six months to schedule follow-on testing.

IMPACT IF NOT PROVIDED: Turbine engine damage resulting from contaminated air supply ducts will continue to escalate. Jet engine turbine testing will be adversely affected and accurate test data will be unattainable, adversely impacting reliability of future aircraft engines. There is no other military or commercial business which can assume this workload.

ADDITIONAL: There is no criteria/scope for this project in part II of Military Handbook 1190, "Facility Planning and Design Guide" or in Air Force Manual 86-2, "Standard Facility Requirements". All alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared. This is the first phase of a multi-phased effort to remediate ingestion of rust particles into jet engines during testing.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ARNOLD AIR FORCE BASE, TENNESSEE

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE JET ENGINE AIR INDUCTION SYSTEM	ANZY963001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:

(a) Standard or Definitive Design - NO

(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 165

(4) Construction Start 96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
DYESS AIR FORCE BASE, TEXAS	AIR COMBAT COMMAND	0.92

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	667	4118	370				55	69	127	5,406
b. End FY 2001	660	4088	374				55	69	127	5,373

7. INVENTORY DATA ($000)

a. Total Acreage: (6,367)	
b. Inventory Total As Of: (30 SEP 95)	231,708
c. Authorization Not Yet In Inventory:	26,100
d. Authorization Requested In This Program:	5,895
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	6,150
g. Remaining Deficiency:	66,050
h. Grand Total:	335,903

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	ADD TO AND ALTER DORMITORIES	148 PN	5,895	SEP 95	SEP 96
		TOTAL:	5,895		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

136-664	UPGRADE RUNWAY LIGHTING SYSTEM	LS	5,000
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS	1,150

10. Mission or Major Functions: A wing with two B-1 bomb squadrons, one of which is responsible for training all B-1 aircrews, and two C-130 airlift squadrons.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	7,920
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DYESS AIR FORCE BASE, TEXAS	ADD TO AND ALTER DORMITORIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96C	721-312	FNWZ973011	5,895

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER DORMITORIES (148 PN)	SM	5,000		4,078
ALTERATION	SM	5,000	600	(3,000)
EXTERIOR IMPROVEMENTS	LS			(1,078)
SUPPORTING FACILITIES				975
MAIL SERVICES FACILITIES	LS			(50)
SITE IMPROVEMENTS	LS			(750)
REMOVE ASBESTOS MATERIALS	SM	950	121	(115)
UTILITIES	LS			(60)
SUBTOTAL				5,053
CONTINGENCY (10%)				505
TOTAL CONTRACT COST				5,558
SUPERVISION, INSPECTION AND OVERHEAD (6%)				333
TOTAL REQUEST				5,891
TOTAL REQUEST (ROUNDED)				5,895

10. Description of Proposed Construction: Upgrade two dormitories. Includes upgrading mechanical and electrical systems, interior and exterior finishes, shared kitchens, laundry rooms, stairway upgrades and asbestos abatement. Also includes utilities, pavements, site improvements to include outdoor recreation areas and all necessary support.
Air Conditioning: 35 KW. Grade Mix: 148 E1-E4.
Maximum Utilization: 148 Personnel

11. REQUIREMENT: 1,638 PN ADEQUATE: 522 PN SUBSTANDARD: 488 PN
PROJECT: Add to and alter dormitories. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment project. It is a major Air Force objective to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation, and personal well being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: The majority of assigned unaccompanied enlisted personnel live in dormitories not meeting current Air Force and DoD standards or in off-base quarters costing more than they can afford. The dormitories have received no major upgrades since originally constructed to standards in effect at that time. The existing dormitories have inadequate control of heating and air conditioning, poor insulation, insufficient noise attenuation, and obsolete electrical and mechanical systems. In addition, the existing dormitories lack the necessary amenities to adequately house enlisted personnel. The average cost of off-base housing for unaccompanied personnel is $436 per month. Of those residing off-base, 33% are considered unsuitably housed.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

DYESS AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER DORMITORIES	FNWZ973011

IMPACT IF NOT PROVIDED: Substandard living conditions will persist and morale, productivity, and career satisfaction of the enlisted force will continue to be degraded. The building will require increased maintenance and higher energy costs and will continue to be out of compliance with the DoD standards and local building codes.

ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo. Based on the net present values and benefits of the respective alternatives, alteration was found to be the most cost effective over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

DYESS AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER DORMITORIES	FNWZ973011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 SEP 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	1%
(d)	Date 35% Designed.	96 JUL 15
(e)	Date Design Complete	96 DEC 15
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	DYESS
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	350
(b)	All Other Design Costs	230
(c)	Total	580
(d)	Contract	435
(e)	In-house	145
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
KELLY AIR FORCE BASE, TEXAS	AIR FORCE MATERIEL COMMAND	0.87

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	792	3841	12379				1	7		17,020
b. End FY 2001	779	3490	11269				1	7		15,546

7. INVENTORY DATA ($000)

a. Total Acreage: (4,660)	
b. Inventory Total As Of: (30 SEP 95)	479,983
c. Authorization Not Yet In Inventory:	55,481
d. Authorization Requested In This Program:	3,250
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	5,600
g. Remaining Deficiency:	120,000
h. Grand Total:	664,314

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
610-249	WING SUPPORT FACILITY	LS	3,250	JUL 95	JUN 96
		TOTAL:	3,250		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

141-000	BC-CONSTRUCT 838 ENGINEERING INSTALLATION SQUADRON	LS	5,600

10. Mission or Major Functions: San Antonio Air Logistics Center which is responsible for logistics management, support, and depot-level maintenance of C-5, C-9, C-17, T-37, and T-38 aircraft and all fuels and TF39/T58/F100 engines; an air base wing; an Air National Guard fighter group with one F-16 squadron; an Air Force Reserve airlift wing with one C-5 squadron; Headquarters Air Intelligence Agency; the Air Force News Agency; and the Joint Electronic Warfare Center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	7,500
b. Water pollution:	10,300
c. Occupational safety and health:	0
d. Other Environmental:	3,100

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KELLY AIR FORCE BASE, TEXAS	WING SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.80.19 TIARA	610-249	MBPB973010	3,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
WING SUPPORT FACILITY	LS			1,802
WING SUPPORT FACILITY	SM	1,850	920	(1,702)
ELEVATOR	EA	1	100,000	(100)
SUPPORTING FACILITIES				1,125
SITE IMPROVEMENTS	LS			(110)
UTILITIES	LS			(330)
PAVEMENT	LS			(230)
DEMOLITION	SM	3,800	120	(455)
SUBTOTAL				2,927
CONTINGENCY (5%)				146
TOTAL CONTRACT COST				3,073
SUPERVISION, INSPECTION AND OVERHEAD (6%)				184
TOTAL REQUEST				3,257
TOTAL REQUEST (ROUNDED)				3,250

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab with masonry walls, structural steel frame and metal roof system. Elevator, utilities (including fire protection), parking and all necessary support are included. Demolish four substandard facilities. Air Conditioning: 140 KW.

11. REQUIREMENT: 6,244 SM ADEQUATE: 4,394 SM SUBSTANDARD: 3,800 SM
PROJECT: Construct a wing support facility. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. An adequate, energy efficient, and properly configured facility is required to consolidate Wing support activities for the Air Intelligence Agency. This facility will consolidate Wing support functions to include the staff judge advocate with court room, security police, naval operations, chaplain functions, civilian personnel, education center with class rooms, and conference center. These functions support the 67th Intelligence Wing and other Air Intelligence Agency activities.
CURRENT SITUATION: Wing support activities are currently dispersed throughout the installation in old and deteriorated wood frame structures. The physical separation of these facilities creates fragmented lines of communication and authority. These facilities were initially constructed as dormitories and are not conducive to the functional requirements of support agencies. The facilities are inadequately sized and poorly configured causing increased workloads and inefficient operations. In addition, these facilities lack adequate electrical, mechanical, and fire protection systems. Existing facilities require constant maintenance and repair and cannot be economically upgraded to current standards. There

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
WING SUPPORT FACILITY	MBPB973010

are no other adequate facilities to support this requirement. Upon completion of this project four substandard facilities totaling 3800 SM will be demolished.

IMPACT IF NOT PROVIDED: The 67th Intelligence Wing support functions will continue to be housed haphazardly in old and inefficient wood frame structures which are poorly suited for their current use. The Wing will not be able to effectively conduct air intelligence operations in dispersed facilities which impede proper lines of communication and authority. Personnel will continue to work in substandard, cramped, and deplorable conditions affecting morale and productivity.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
WING SUPPORT FACILITY	MBPB973010

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUL 05
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	95 AUG 10
(e)	Date Design Complete	96 JUN 20
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	182
(b)	All Other Design Costs	205
(c)	Total	387
(d)	Contract	268
(e)	In-house	119
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
LACKLAND AIR FORCE BASE, TEXAS	AIR EDUCATION AND TRAINING COMMAND	0.87

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1819	4724	2693	66	5531		62	1756		16,651
b. End FY 2001	1829	4697	2688	64	6213		62	1756		17,309

7. INVENTORY DATA ($000)

a. Total Acreage: (2,753)	
b. Inventory Total As Of: (30 SEP 95)	417,260
c. Authorization Not Yet In Inventory:	42,243
d. Authorization Requested In This Program:	9,413
e. Authorization Included In Following Program: (FY 1998)	7,710
f. Planned In Next Three Program Years:	14,100
g. Remaining Deficiency:	37,600
h. Grand Total:	528,326

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-476	PIF COMBAT ARMS TRAINING FACILITY	3,300 SM	4,800	AUG 95	JUL 96
721-312	UPGRADE RECRUIT DORMITORY	1,000 PN	4,613	APR 95	JUL 96
		TOTAL:	9,413		

9a. Future Projects: Included in the Following Program (FY 1998)

141-456	OPERATIONS FACILITY	4,650 SM	7,630
730-841	BC-ADD TO DOG KENNEL	56 SM	80
		TOTAL:	7,710

9b. Future Projects: Typical Planned Next Three Years:

724-417	STUDENT PILOT DORMITORY	150 PN	9,100
871-183	UPGRADE STORM DRAINAGE SYSTEM, PHASE 2	LS	5,000

10. Mission or Major Functions: Training wing responsible for Basic Military Training School and security police, transportation, cryptographic maintenance, recruiting, and social actions courses; Defense Language Institute; English Language Center; Inter-American Air Forces Academy; and a major Air Force medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	PIF COMBAT ARMS TRAINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
9.12.15	171-476	MPYJ963257	4,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PIF COMBAT ARMS TRAINING FACILITY	SM	3,300		3,181
COMBAT ARMS TNG ARMORY	SM	250	1,500	(375)
COMBAT ARMS TNG CLASSROOMS/ADMIN	SM	3,050	920	(2,806)
SUPPORTING FACILITIES				1,115
UTILITIES	LS			(550)
SITE IMPROVEMENTS	LS			(100)
PAVEMENTS	LS			(100)
DEMOLITION	SM	3,350	100	(335)
EMCS CONNECTION	LS			(30)
SUBTOTAL				4,296
CONTINGENCY (5%)				215
TOTAL CONTRACT COST				4,511
SUPERVISION, INSPECTION AND OVERHEAD (6%)				271
TOTAL REQUEST				4,782
TOTAL REQUEST (ROUNDED)				4,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(200)

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, structural frame, and standing seam metal roof system. Includes technical training classrooms, combined administrative and instructor area, an armory, prewired workstations, and other necessary support. Demolish sixteen facilities.
Air Conditioning: 80 KW.

11. REQUIREMENT: 3,300 SM ADEQUATE: 0 SUBSTANDARD: 3,350 SM
PROJECT: Construct a combat arms training facility. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A modern and adequately sized facility is required to provide combat arms training for 50,000 students annually in support of Navy and Air Force Security Police (SP) training, Basic Military Training (BMT), Reserve Officer Training Corps (ROTC), and Explosive Ordinance Disposal (EOD) training. Facility will be constructed adjacent to the small arms range located at the Lackland Training Annex.
CURRENT SITUATION: The existing facilities are old trailers and relocatable metal buildings which are beyond economic repair and do not meet training standards. These buildings are not adequate in size nor do they have running water or latrines. Instructors and students must use portable toilets which are inconvenient and undesirable. The existing facilities are dispersed requiring special scheduling, transportion, and added security to move weapons and ammunition to and from the armory to the respective training site. A savings of 25 manpower positions, 8 vehicles, and 20% reduction in instructor time will be realized with this consolidated training facility and the reduced personnel transportation and weapons handling. Overcrowded classrooms limit hands on training to

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
PIF COMBAT ARMS TRAINING FACILITY	MPYJ963257

only the most critical lessons. Students must share training aids, which increases training time and reduces student retention. Student retention is further reduced where demonstration only must be used. Sixteen facilities totalling 3,350 SM will be disposed of upon completion of this project.

IMPACT IF NOT PROVIDED: Combat arms training will be forced to continue operating in inefficient, minimally acceptable facilities. Readiness of Security Police, Explosive Ordinance Disposal personnel and Basic Trainees will be effected. Quality of life for instructors and students will remain below desired levels. This a Productivity Investment Fund (PIF) initiative. An estimated $19 million in savings from reduced personnel costs will not be realized if this project is not accomplished.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". Economic analysis of new construction and status quo operation alternatives was completed for this project. New construction was found to be the most cost effective solution over the life of the project with a payback on the initial construction costs of less than 4 years from the resulting operational savings.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
PIF COMBAT ARMS TRAINING FACILITY	MPYJ963257

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 AUG 15
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	95 DEC 15
(e) Date Design Complete	96 JUL 31
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	288
(b) All Other Design Costs	220
(c) Total	508
(d) Contract	438
(e) In-house	70
(4) Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PREWIRED WORK STATIONS	3400	FY1998	200

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	UPGRADE RECRUIT DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.57.96	721-312	MPLS963247	4,613

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE RECRUIT DORMITORY (1000 PN)				3,510
UPGRADE DORMITORY	SM	19,500	180	(3,510)
SUPPORTING FACILITIES				450
SITE IMPROVEMENTS	LS			(80)
EMCS/COMMUNICATIONS	LS			(75)
ASBESTOS REMOVAL	SM	19,500	15	(295)
SUBTOTAL				3,960
CONTINGENCY (10%)				396
TOTAL CONTRACT COST				4,356
SUPERVISION, INSPECTION AND OVERHEAD (6%)				261
TOTAL REQUEST				4,617
TOTAL REQUEST (ROUNDED)				4,613

10. Description of Proposed Construction: Reconfigure dining, kitchen and laundry space for a more efficient operation. Replace wall, floor, and ceiling finishes. Upgrade the facility's structural, electrical and mechanical systems, install fire protection, remove asbestos, and make necessary site improvements to restore areas disturbed by construction. Air Conditioning: 525 KW. Grade Mix: 1000 E1-E4.
Maximum Utilization: 1000 Personnel

11. REQUIREMENT: 7,000 PN ADEQUATE: 1,000 PN SUBSTANDARD: 6,000 PN
PROJECT: Upgrade a recruit dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A major Air Force objective is to provide recruits with facilities conducive to their proper housing, dining, and training. A properly designed and furnished facility is essential to successfully train our future Air Force personnel. Existing recruit housing and training facilities were designed to meet this objective by providing housing, dining, and classroom space in one facility in an effort to develop teamwork, discipline, and camaraderie among the recruits.
CURRENT SITUATION: The existing building was constructed in 1968 and lacks adequate fire protection. Mechanical, electrical and lighting systems along with interior finishes are at the end of their useful life and require replacement. The facility is also outdated and inadequate to meet the current standards for recruit housing, training, and food service. The food preparation, serving area, and laundry area layouts are functionally inefficient and need to be altered to improve efficiency and accommodate new equipment. Soil below the facility has expanded and damaged utility lines and the structural foundation and framing. Emergency measures were required to preclude further utility and

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
LACKLAND AIR FORCE BASE, TEXAS	
4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE RECRUIT DORMITORY	MPLS963247

foundation damage; however, additional work is required. This project is required to support current and planned accession of Air Force personnel and considers future force structure end strength.

IMPACT IF NOT PROVIDED: The training mission of the Basic Military Training School will continue to be degraded by the condition of this facility. Failures in the structural, mechanical, and electrical systems will increase as they are used beyond their useful life. The cost of operations and maintenance to the facility will escalate as needed repairs are postponed.

ADDITIONAL: This project meets the criteria/scope for recruit housing specified in part II of Military Handbook 1190, "Facilities Planning and Design Guide". The new OSD dormitory standard does not apply to this facility. It is excluded as a recruit dormitory. An economic analysis has been prepared comparing the alternatives of revitalization and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. Fire protection systems for this project meet new standards established in MIL-HNBK 1008B, "Fire Protection Facilities".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE RECRUIT DORMITORY	MPLS963247

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 APR 18
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 DEC 22
(e)	Date Design Complete	96 JUL 01
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	LACKLAND
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	275
(b)	All Other Design Costs	138
(c)	Total	413
(d)	Contract	283
(e)	In-house	130
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
SHEPPARD AIR FORCE BASE, TEXAS	AIR EDUCATION AND TRAINING COMMAND	0.90

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	675	2623	1391	449	3400		137	1792		10,467
b. End FY 2001	676	2709	1375	400	4135		137	1792		11,224

7. INVENTORY DATA ($000)

a. Total Acreage: (5,719)	
b. Inventory Total As Of: (30 SEP 95)	300,310
c. Authorization Not Yet In Inventory:	40,220
d. Authorization Requested In This Program:	9,400
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	8,300
g. Remaining Deficiency:	27,600
h. Grand Total:	385,830

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
442-758	CONSOLIDATED LOGISTICS WAREHOUSE	10,850 SM	9,400	MAR 95	SEP 96
		TOTAL:	9,400		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

610-122	LOGISTICS SUPPORT FACILITY	1,500 SM	8,300	

10. Mission or Major Functions: A training wing responsible for aircraft maintenance, civil engineering, comptroller, and health science courses; a flying training wing with three T-37/T-38/AT-38 flying traing squadrons that train US and NATO pilots under the Euro-NATO Joint Jet Pilot Training Program (ENJJPT).

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHEPPARD AIR FORCE BASE, TEXAS	CONSOLIDATED LOGISTICS WAREHOUSE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.57.96	442-758	VNVP902005	9,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED LOGISTICS WAREHOUSE	SM	10,850		6,398
WAREHOUSE	SM	7,000	560	(3,920)
OPEN STORAGE	SM	1,400	160	(224)
MANAGEMENT SPACE	SM	2,450	920	(2,254)
SUPPORTING FACILITIES				2,010
UTILITIES/EMCS	LS			(550)
PAVEMENTS	LS			(450)
SITE IMPROVEMENTS	LS			(400)
DEMOLITION	SM	3,600	169	(610)
SUBTOTAL				8,408
CONTINGENCY (5%)				420
TOTAL CONTRACT COST				8,828
SUPERVISION, INSPECTION AND OVERHEAD (6%)				530
TOTAL REQUEST				9,358
TOTAL REQUEST (ROUNDED)				9,400
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,050)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame/roof system with brick veneer, utilities, fire protection, parking, truck scale, fencing & other support. Functions include warehouse, open storage, and management area for various base supply functions. Demolish three substandard facilities.
Air Conditioning: 105 KW.

11. REQUIREMENT: 15,190 SM ADEQUATE: 1,925 SM SUBSTANDARD: 15,220 SM
PROJECT: Construct a consolidated logistics warehouse. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A facility of adequate size and configuration is required for the processing and storage of supplies, equipment, and furnishings in support of the base's training mission. Functions include processing, storage, shipping, management control and supervision. Adequate space is required for the Traffic Management Office (TMO), the Mobility Processing Center, and administrative and data processing space for the base supply function. A mechanized material handling system and storage aid system will be incorporated in this facility. These systems were considered in determining the total space requirements.
CURRENT SITUATION: Current base supply activities are housed in almost two dozen inadequate facilities. This dispersed operation, coupled with poorly configured space and undersized electrical and mechanical systems, causes increased workloads, inefficient operations, and unacceptable delays in the processing of materials and equipment. Medical war readiness material (WRM) is stored at three different locations hindering adequate inventory control. Mobility processing and storage for 454 people and almost 2300 mobility bags occupies a World War II facility

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
SHEPPARD AIR FORCE BASE, TEXAS	
4. PROJECT TITLE	5. PROJECT NUMBER
CONSOLIDATED LOGISTICS WAREHOUSE	VNVP902005

inadequate for the task. Fire deficiencies and deteriorated environmental systems are on record. Project provides space to support TMO processing of over 15,000 permanent party and student personnel annually. Project demolishes three facilities totalling 3600 square meters.

IMPACT IF NOT PROVIDED: Failure to provide adequate facilities will result in continued inefficient and inadequate base supply operations degrading Base Supply's ability to support the mission. WRM and other supplies will continue to be subject to damage from fire and extreme environmental conditions. Mission effectivenes will continue to be impaired. Energy and maintenance costs will continue to escalate.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SHEPPARD AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
CONSOLIDATED LOGISTICS WAREHOUSE	VNVP902005

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 MAR 15
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	95 NOV 21
(e) Date Design Complete	96 SEP 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	564
(b) All Other Design Costs	80
(c) Total	644
(d) Contract	457
(e) In-house	187
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
MECHANIZED MATERIAL HANDLING SYSTEM/STORAGE AID SYSTEM	3080	FY1998	750
PREWIRED WORK STATIONS	3400	FY1998	300

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
HILL AIR FORCE BASE, UTAH	AIR FORCE MATERIEL COMMAND	1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	601	3863	8102				3489	4702		20,757
b. End FY 2001	612	3725	6380				3489	4702		18,908

7. INVENTORY DATA ($000)

a. Total Acreage: (6,698)	
b. Inventory Total As Of: (30 SEP 95)	559,980
c. Authorization Not Yet In Inventory:	18,800
d. Authorization Requested In This Program:	3,690
e. Authorization Included In Following Program: (FY 1998)	8,050
f. Planned In Next Three Program Years:	5,350
g. Remaining Deficiency:	0
h. Grand Total:	595,870

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
880-000	CORRECT FIRE PROTECTION DEFICIENCIES		LS	3,690	MAY 93	MAY 96
			TOTAL:	3,690		

9a. Future Projects: Included in the Following Program (FY 1998)

211-159	ADD TO AND ALTER ACFT CORROSION CONTROL FCLTY	1,900	SM	1,550
821-113	UPGRADE STEAM PLANT		LS	1,500
841-166	IMPROVE WATER WELLS		LS	5,000
			TOTAL:	8,050

9b. Future Projects: Typical Planned Next Three Years:

130-142	ADD TO AND ALTER FIRE STATION	2,900	SM	1,150
211-000	AIR POLLUTION MONITORING AND CONTROL MEASURES		LS	3,000
315-236	RANGE AND TEST ENGINEERING FACILITY	120	SM	1,200

10. Mission or Major Functions: Ogden Air Logistics Center which is reponsible for logistics management, support, and depot-level maintenance of tactical missiles, F-16 aircraft, and Minuteman and Peacekeeper ICBMs; a test group with HH-1, MH-60 and HC/NC-130 aircraft; an air base wing; an Air Combat Command fighter wing with three F-16 squadrons; and an Air Force Reserve fighter wing with one F-16 squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE, UTAH	CORRECT FIRE PROTECTION DEFICIENCIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.96	880-000	KRSM943039	3,690

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CORRECT FIRE PROTECTION DEFICIENCIES	LS			3,000
DEPOT MAINTENANCE HANGAR	LS			(2,000)
DEPOT OPERATIONS FACILITY	LS			(1,000)
SUPPORTING FACILITIES				170
UTILITIES	LS			(170)
SUBTOTAL				3,170
CONTINGENCY (10%)				317
TOTAL CONTRACT COST				3,487
SUPERVISION, INSPECTION AND OVERHEAD (6%)				209
TOTAL REQUEST				3,696
TOTAL REQUEST (ROUNDED)				3,690

10. Description of Proposed Construction: Construct fire walls and egress corridors, replace combustible partitions and doors, provide panic hardware, upgrade stairwells and electric systems to meet fire codes, and replace/extend fire suppression systems.

11. REQUIREMENT: As required.
PROJECT: Correct fire protection deficiencies. (Current Mission)
REQUIREMENT: Correct fire protection deficiencies (assigned a FSD Code of II) in a depot maintenance hangar and a logistical operations facility to prevent the rapid spread of fire and to facilitate the safe and orderly egress of nearly 2,000 employees. Additional sprinkler coverage is required to protect buildings, aircraft, and equipment. Both facilities must comply with current life safety codes pertaining to safe egress distance and routes, stairway widths, and fire protection requirements.
CURRENT SITUATION: The existing 600,000 square foot hangar and related shop space provides depot maintenance on F-16 and C-130 aircraft valued in excess of $1.6 billion. A recent study identified 64 life safety code violations in the hangar, including excessive egress distances, non-fire rated stairways, offices and tool rooms, and structural steel which is not fire proofed. The 338,000 square foot operations facility houses up to 800 people, has numerous partitions made of combustimle materials, unsafe electrical circuts, deficient egress doors and hardware, and insufficient sprinkler coverage. A fire deficiency code II has been assigned to this buildings, confirming the serious situations affecting a large number of lives and a high potential monetary loss.
IMPACT IF NOT PROVIDED: In the event of fire, these code violations could contribute to the deaths of many people and monetary losses exceeding $1 billion.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
HILL AIR FORCE BASE, UTAH	
4. PROJECT TITLE	5. PROJECT NUMBER
CORRECT FIRE PROTECTION DEFICIENCIES	KRSM943039

ADDITIONAL: There is no criteria/scope for this project in either Part II of Military Handbook 1190, "Facility Planning and Design Guide" or in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of all known alternative options was accomplished. No reasonable option could satisfy fire protection requirements; therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

HILL AIR FORCE BASE, UTAH

4. PROJECT TITLE	5. PROJECT NUMBER
CORRECT FIRE PROTECTION DEFICIENCIES	KRSM943039

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	93 MAY 17
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	60%
(d) Date 35% Designed.	95 SEP 15
(e) Date Design Complete	96 MAY 12
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	190
(b) All Other Design Costs	264
(c) Total	454
(d) Contract	350
(e) In-house	104
(4) Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
LANGLEY AIR FORCE BASE, VIRGINIA	AIR COMBAT COMMAND	0.92

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1977	6147	1737				67	126	369	10,423
b. End FY 2001	1881	6034	1781				67	126	369	10,258

7. INVENTORY DATA ($000)

a. Total Acreage: (3,152)	
b. Inventory Total As Of: (30 SEP 95)	235,155
c. Authorization Not Yet In Inventory:	31,920
d. Authorization Requested In This Program:	8,005
e. Authorization Included In Following Program: (FY 1998)	12,200
f. Planned In Next Three Program Years:	9,000
g. Remaining Deficiency:	47,013
h. Grand Total:	343,293

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
610-284	ALTER HQ AIR COMBAT COMMAND FACILITIES	3,400 SM	5,160	AUG 95	SEP 96
832-266	UPGRADE SANITARY SEWER SYSTEM	LS	2,845	JUL 95	AUG 96
		TOTAL:	8,005		

9a. Future Projects: Included in the Following Program (FY 1998)

100-000	VARIOUS FACILITIES	LS	10,000
141-454	ALTER CARS COMMAND AND TRAINING FACILITY	1,250 SM	2,200
		TOTAL:	12,200

9b. Future Projects: Typical Planned Next Three Years:

740-674	PHYSICAL FITNESS CENTER	2,500 SM	9,000

10. Mission or Major Functions: Headquarters Air Combat Command; a fighter wing with three F-15 fighter squadrons; C-21 unit; a geographically separated unit at Patrick AFB; an Air intelligence group; and the USAF Doctrine Center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	1,500
b. Water pollution:	20,560
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LANGLEY AIR FORCE BASE, VIRGINIA	ALTER HQ AIR COMBAT COMMAND FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96C	610-284	MUHJ933008	5,160

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER HQ AIR COMBAT COMMAND FACILITIES	SM	3,400	960	3,264
SUPPORTING FACILITIES				1,140
DEMOLITION	SM	1,050	162	(170)
ASBESTOS/LEAD PAINT REMOVAL/DISPOSAL	LS			(475)
SANDBLAST AND REPOINT BRICKWORK	LS			(200)
SITE IMPROVEMENTS	LS			(45)
UTILITIES	LS			(50)
PAVEMENTS	LS			(200)
SUBTOTAL				4,404
CONTINGENCY (10%)				440
TOTAL CONTRACT COST				4,844
SUPERVISION, INSPECTION AND OVERHEAD (6%)				291
TOTAL REQUEST				5,135
TOTAL REQUEST (ROUNDED)				5,160

10. Description of Proposed Construction: Provide all structural, architectural, mechanical and electrical work required to alter existing facilities to support HQ Air Combat Command (ACC) staff functions. Includes renovation of interiors; repair of exterior walls, windows and roofs; site improvements; parking; utilities; demolition; asbestos and lead paint removal/disposal and all necessary support.
Air Conditioning: 1407 KW.

11. REQUIREMENT: 85,436 SM ADEQUATE: 71,794 SM SUBSTANDARD: 10,715 SM
PROJECT: Alter Headquarters Air Combat Command facilities. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. Adequately sized and configured facilities are required to accommodate the headquarters' staff of Air Combat Command. To facilitate the development of a consolidated headquarters function and the termination of expensive off-base leases facility, alterations are required to provide needed secure and functional work areas for staff personnel.
CURRENT SITUATION: There is not enough adequate administrative space nor secure work areas on base to support the increase in staff that has resulted from the stand-up of Air Combat Command. The base is using approximately 6970 SM of leased interim office space at an annual cost of over $1 million until additional headquarters facilities can be altered to accommodate the staff. In addition, several ACC organizations are required to occupy substandard work space on base that has previously been identified for demolition and/or is unsuitable for upgrade. Over 480 headquarters staff personnel who are in leased space are required to

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
LANGLEY AIR FORCE BASE, VIRGINIA	
4. PROJECT TITLE	5. PROJECT NUMBER
ALTER HQ AIR COMBAT COMMAND FACILITIES	MUHJ933008

conduct official business between offices that are as much as 15 miles apart. This causes an extremely inefficient and costly operation with many unproductive man-hours spent in transit. The existing Base Civil Engineering (BCE) activity, an industrial function, is working in overcrowded and unsafe facilities that are located in the middle of the headquarters complex. Langley AFB has two MILCON projects (Phases I & II approved by Congress in FY93 & FY94) to construct a new BCE complex in a less congested area of the base that is more conducive to industrial functions. Three facilities vacated by the BCE are programmed to be converted into administrative space to support headquarters functions. This project (Phase I) will add to and alter two of these facilities plus one other small existing facility and a future project will add to and alter the third BCE facility. This initiative must be phased to support the overall base development plan and the domino affect of moves these projects will cause. This project allows demolition of substandard wooden additions to facilities being altered (1050 SM).

IMPACT IF NOT PROVIDED: Air Combat Command and its supporting organizations will not be able to effectively perform their assigned mission. Continued leasing of office space will be required and funded at over $1 million per year. The headquarters will continue to operate out of physically separated facilities which creates inefficiencies. HQ ACC organizations will be unable to effectively interact with each other and will continue to be housed in overcrowded conditions. These situations will continue to seriously degrade the ability of the staff to carry out its mission. Daily routine communication between the staff will continue to be cumbersome.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, a combination of alteration and new construction was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

4. PROJECT TITLE	5. PROJECT NUMBER
ALTER HQ AIR COMBAT COMMAND FACILITIES	MUHJ933008

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 AUG 01
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	96 JAN 01
(e) Date Design Complete	96 SEP 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	270
(b) All Other Design Costs	144
(c) Total	414
(d) Contract	276
(e) In-house	138
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LANGLEY AIR FORCE BASE, VIRGINIA	UPGRADE SANITARY SEWER SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	832-266	MUHJ973099	2,845

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE SANITARY SEWER SYSTEM	LS			2,254
REPAIR/REPLACE SANITARY SEWER LINES	LM	5,000	380	(1,900)
REPAIR/REPLACE MANHOLES	EA	210	1,400	(294)
CROSS CONNECTIONS	EA	40	1,500	(60)
SUPPORTING FACILITIES				180
SITE IMPROVEMENTS	LS			(180)
SUBTOTAL				2,434
CONTINGENCY (10%)				243
TOTAL CONTRACT COST				2,677
SUPERVISION, INSPECTION AND OVERHEAD (6%)				161
TOTAL REQUEST				2,838
TOTAL REQUEST (ROUNDED)				2,845

10. Description of Proposed Construction: Replace deteriorated sections of existing sewer lines and slip line others as required; eliminate cross connections between sanitary sewers and storm drainage; replace/repair degraded manholes; replace pavements of roads, parking lots, sidewalks and other site work as required; and dewater, shore and perform other necessary support as required.

11. REQUIREMENT: As required.

PROJECT: Upgrade sanitary sewer system. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. Langley AFB does not currently comply with the Hampton Roads Sanitary District (HRSD) Industrial Waste Water Discharge permit No 0011, under authority of the Clean Water Act (CWA). Langley AFB also does not currently comply with the Commonwealth of Virginia State Water Control Board National Pollution Discharge Elimination System (NPDES) permit No VA0083194 which prohibits "...discharge of floating solids or visible foam in other than trace amounts."

CURRENT SITUATION: The base has excessive infiltration and inflow as documented in the Sewer System Evaluation Survey (SSES) completed in June 1995. The survey indicates a total wastewater flow of 11.92 MLD (million liters per day). This excess contributes to violation of the HRSD permit condition of 3.52 MLD. This excess has also contributed to violations of the Commonwealth of Virginia State Water Control Board NPDES discharge permit by releasing raw sewage and industrial wastewater into the storm drain. Violations have occurred at least eight times in the last three years. This situation will only worsen over time.

IMPACT IF NOT PROVIDED: Langley AFB will continue to be in noncompliance with the CWA, HRSD and Commonwealth of Virginia discharge permits. The

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE SANITARY SEWER SYSTEM	MUHJ973099

base is becoming increasingly vulnerable to the imposition of enforcement action as it continues to remain in noncompliance with its discharge permits which could result in the base receiving Notices of Violation (NOVs) and fines up to $25,000 per day per violation. Environmental noncompliance strains relations with the host community, creates an environmental threat, and can lead to additional enforcement in the form of citizen legal actions.

ADDITIONAL: There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known effective options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE SANITARY SEWER SYSTEM	MUHJ973099

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 JUL 01
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	95 DEC 15
(e) Date Design Complete	96 AUG 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	160
(b) All Other Design Costs	95
(c) Total	255
(d) Contract	170
(e) In-house	85
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
FAIRCHILD AIR FORCE BASE, WASHINGTON	AIR MOBILITY COMMAND	1.11

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	549	3367	467		35		199	168	90	4,875
b. End FY 2001	516	3328	452		35		199	168	90	4,788

7. INVENTORY DATA ($000)

a. Total Acreage: (5,691)	
b. Inventory Total As Of: (30 SEP 95)	327,274
c. Authorization Not Yet In Inventory:	24,375
d. Authorization Requested In This Program:	18,155
e. Authorization Included In Following Program: (FY 1998)	16,050
f. Planned In Next Three Program Years:	8,750
g. Remaining Deficiency:	41,950
h. Grand Total:	436,554

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
121-122	KC-135 HYDRANT FUELING SYSTEM	LS	10,875	JUN 95	AUG 96
141-753	KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	3,800 SM	7,280	JUN 94	SEP 96
		TOTAL:	18,155		

9a. Future Projects: Included in the Following Program (FY 1998)

131-111	COMMUNICATIONS FACILITY	1,800 SM	3,450
141-753	REPAIR SQUADRON OPERATIONS FACILITY	3,800 SM	7,200
610-249	WING HEADQUARTERS	2,800 SM	5,400
		TOTAL:	16,050

9b. Future Projects: Typical Planned Next Three Years:

136-664	UPGRADE RUNWAY LIGHTING SYSTEM	LS	4,000
610-249	MISSION SUPPORT COMPLEX	2,700 SM	4,750

10. Mission or Major Functions: An air refueling wing with five KC-135 squadrons; an Air National Guard air refueling wing with a KC-135 squadron; and the Air Education and Training Command training group that conducts survival training and flies UH-1 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	2,500
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
FAIRCHILD AIR FORCE BASE, WASHINGTON	KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.12.18	141-753	GJKZ963501	7,280

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	SM	3,800	1,400	5,320
SUPPORTING FACILITIES				1,200
UTILITIES	LS			(460)
PAVEMENTS	LS			(175)
ROADS	LS			(350)
SITE IMPROVEMENTS	LS			(110)
ELEVATOR	EA	1	105,000	(105)
SUBTOTAL				6,520
CONTINGENCY (5%)				326
TOTAL CONTRACT COST				6,846
SUPERVISION, INSPECTION AND OVERHEAD (6%)				411
TOTAL REQUEST				7,257
TOTAL REQUEST (ROUNDED)				7,280

10. Description of Proposed Construction: Two-story facility with concrete foundation, masonry walls, structural steel frame, sloping roof system, fire protection system, elevator, parking, and sidewalks. New site work in an undeveloped area includes constructing a new road, extending underground steamlines, site improvements, and necessary support.
Air Conditioning: 300 KW.

11. REQUIREMENT: As required.
PROJECT: Construct a KC-135 Squadron Operations/Aircraft Maintenance Unit (Sq Ops/AMU) facility. (New Mission)
REQUIREMENT: This project is required to consolidate Air Mobility operational squadrons by combining aircraft operators with flightline maintainers. The consolidation relocates flyers and maintainers out of undersized and dispersed facilities into a functional and adequately sized structure to support the beddown of 34 additional KC-135s. All 59 KC-135s are already in place on Fairchild AFB. Space is required for Ops/AMU management support, briefing/debriefing, flight planning, training and testing, flying/ground safety, tool rooms, bench stock, mobility office, technical order library, standardization/evaluation, life support, locker rooms, and scheduling. In addition, an elevator is required to comply with the Americans With Disabilities Act of 1990. This consolidation is consistent with the Air Mobility Command initiative to bring the Sq Ops / AMU facilities up to minimum Air Force standards. These efficiencies are essential to maintain mission tasking rates in the Air Mobility Command.
CURRENT SITUATION: Squadron operations and the aircraft maintenance units are dispersed among five facilities. This physical separation creates

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

FAIRCHILD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	GJKZ963501

fragmented lines of communications and authority. Aircrews and maintenance personnel must spend many hours away from their duty location in an effort to obtain parts, organizational and mobility equipment, and required training. The existing maintenance facilities were originally constructed in the mid 1950s. These facilities are inadequately sized and not properly configured to house the unified squadrons supporting the newly realigned KC-135s. The existing facilities will be reused to support other requirements.

IMPACT IF NOT PROVIDED: Operations, maintenance, and support personnel will remain in severely undersized and physically separated buildings and will never develop the cohesiveness necessary to become an efficient and effective operational squadron. Full implementation of the more effective Objective Wing squadron and adequate beddown of the KC-135 aircraft will be degraded. Essential squadron operations and logistic functions will continue to require additional work-arounds that will degrade mission performance.

ADDITIONAL: There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, addition/alteration, and new construction) was done. It indicates new construction is the only option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

FAIRCHILD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	GJKZ963501

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	94 JUN 17
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	95 AUG 30
(e)	Date Design Complete	96 SEP 29
(2) Basis:		
(a)	Standard or Definitive Design -	YES
(b)	Where Design Was Most Recently Used -	FAIRCHIL
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	80
(b)	All Other Design Costs	132
(c)	Total	212
(d)	Contract	111
(e)	In-house	101
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
FAIRCHILD AIR FORCE BASE, WASHINGTON	KC-135 HYDRANT FUELING SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.12.18	121-122	GJKZ958101	10,875

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
KC-135 HYDRANT FUELING SYSTEM				8,042
PUMPHOUSE/CONTROL ROOM	LS			(3,774)
STORAGE TANKS	EA	2	750,000	(1,500)
HYDRANT FUELING SYSTEM/OUTLETS	OL	8	346,000	(2,768)
SUPPORTING FACILITIES				1,735
PAVEMENTS/ROADS	LS			(215)
UTILITIES	LS			(740)
SITE IMPROVEMENTS	LS			(180)
DEMOLITION (PAVEMENTS)	SM	6,500	92	(600)
SUBTOTAL				9,777
CONTINGENCY (5%)				489
TOTAL CONTRACT COST				10,266
SUPERVISION, INSPECTION AND OVERHEAD (6%)				616
TOTAL REQUEST				10,882
TOTAL REQUEST (ROUNDED)				10,875

10. Description of Proposed Construction: New 2,400 gpm Type III hydrant system to include a pumphouse and control room with 600KVA emergency backup power; two 10,000 barrel operating storage tanks complete with piping, coating, concrete berms and basins; transfer pipe between bulk storage and the pumphouse; supply/return pipe and eight new fuel pits; isolation valves; two truck fillstands, and airfield pavement demolition.

11. REQUIREMENT: As required.
PROJECT: onstruct a KC-135 hydrant fueling system. (New Mission)
REQUIREMENT: Beddown construction is required to support the relocation of KC-135 aircraft to Fairchild AFB. This project constructs a Type III (fully automated, environmentally safer, with faster flow rates) fueling system including storage tanks, distribution system, pumping station and emergency power to support the mission and meet the volume and response requirements of the tankers. Refueling requirements during peactime cannot exceed the maximum in-route ground time of 2 hours and 15 minutes per AMC regulation 55-53 (trucking takes four hours). During contingency operations, refueling standards are one hour per aircraft. This project will provide Type III aircraft fueling capability on the existing ramp to support additional permanently assigned KC-135 aircraft. All 59 KC-135 aircraft are already in place on Fairchild AFB. Upon completion of this project 29 fuel pits will be available. The remaining 27 required outlets are programmed in FY98 and FY99.
CURRENT SITUATION: One of the two existing hydrant fueling systems at Fairchild AFB is used by the Air National Guard (ANG) to support their tankers. It is a Panero (Type I, 50 year old manually activated and slow flow rates) system with 10 outlets. The second existing hydrant fueling system is a converted Type I to Type III system that uses 40-year-old

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

FAIRCHILD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
KC-135 HYDRANT FUELING SYSTEM	GJKZ958101

tanks, pumps and obsolete filter separators. This system has 15 outlets. Eleven outlets are suitable for tanker operations. The remaining four outlets are located on the ramp where this project is sited, but their locations cannot support the increased KC-135 parking plan.

IMPACT IF NOT PROVIDED: KC-135 operations at Fairchild AFB will continue to be severely restricted due to inadequate refueling operations. Sorties generation and turn-around of mission aircraft will continue to require exhorbitant resource expenditures, cumbersome methods, and unnecessary aircraft movement. Without this project the requirements for refueling trucks and personnel will increase and unacceptable aircraft turn-around times of four hours verses one and one/quarter hour will continue.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An Economic Analysis has been prepared comparing alternatives of new construction, revitalization, leasing, status quo, and all truck refueling. Based on the present value and benefits of the respective alternatives, new construction was found to be the most cost-effective over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

FAIRCHILD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
KC-135 HYDRANT FUELING SYSTEM	GJKZ958101

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 JUN 30
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	96 JAN 01
(e) Date Design Complete	96 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	CHARLEST
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	290
(b) All Other Design Costs	704
(c) Total	994
(d) Contract	914
(e) In-house	80
(4) Construction Start	97 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MCCHORD AIR FORCE BASE, WASHINGTON	AIR MOBILITY COMMAND	1.08

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	460	3341	1113				7	26	190	5,137
b. End FY 2001	398	2853	1040				7	26	190	4,514

7. INVENTORY DATA ($000)

a. Total Acreage: (6,902)	
b. Inventory Total As Of: (30 SEP 95)	201,531
c. Authorization Not Yet In Inventory:	11,790
d. Authorization Requested In This Program:	57,065
e. Authorization Included In Following Program: (FY 1998)	20,950
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	67,400
h. Grand Total:	358,736

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
113-321	C-17 ALTER HYDRANT FUELING SYSTEM	6 EA	1,100	APR 96	DEC 96
171-212	C-17 ADD TO AND ALTER FLIGHT SIMULATOR	1,000 SM	2,095	MAR 96	DEC 96
171-618	C-17 MAINTENANCE TRAINING FACILITY	2,900 SM	5,685	MAR 96	DEC 96
211-157	C-17 MODULAR REPLACEMENT CENTER	8,500 SM	16,460	APR 96	DEC 96
211-159	C-17 CORROSION CONTROL FACILITY	4,350 SM	11,570	NOV 95	NOV 96
211-179	C-17 FUEL CELL MAINTENANCE FACILITY	3,150 SM	7,480	MAR 96	DEC 96
217-712	C-17 ADD TO AND ALTER AVIONICS MAINTENANCE FACILITY	1,850 SM	1,300	APR 96	DEC 96
721-312	DORMITORY	72 PN	5,390	SEP 95	SEP 96
800-000	C-17 BEDDOWN SUPPORT UTILITIES	LS	5,985	MAR 96	DEC 96
		TOTAL:	57,065		

9a. Future Projects: Included in the Following Program (FY 1998)

141-753	SQUADRON OPERATIONS FACILITY	2,900 SM	6,100
141-766	AEROSPACE FUELS LABORATORY	930 SM	3,150
211-111	ALTER MAINTENANCE HANGAR	13,500 SM	6,500
211-183	SOUND SUPPRESSOR SUPPORT FAC	650 SM	3,200
411-135	IMPROVE JET FUEL STORAGE	LS	2,000
		TOTAL:	20,950

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: An airlift wing with three C-141 squadrons; an Air Force Reserve C-141 associate airlift wing; and the Western Air Defense Sector, which will be assigned to the Air National Guard.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MCCHORD AIR FORCE BASE, WASHINGTON	AIR MOBILITY COMMAND	1.08

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	3,000
c. Occupational safety and health:	9,700
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCHORD AIR FORCE BASE, WASHINGTON	C-17 ADD TO AND ALTER FLIGHT SIMULATOR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	171-212	PQWY973050	2,095

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 ADD TO AND ALTER FLIGHT SIMULATOR	SM	1,000		1,148
ADDITION ONE SIMULATOR BAY (1 BAY)	SM	700	1,400	(980)
ALTERATION	SM	300	560	(168)
SUPPORTING FACILITIES				640
UTILITIES	LS			(250)
PAVEMENTS	LS			(125)
SITE IMPROVEMENTS	LS			(220)
COMMUNICATIONS PRE-WIRING	SM	700	64	(45)
SUBTOTAL				1,788
CONTINGENCY (10%)				179
TOTAL CONTRACT COST				1,967
SUPERVISION, INSPECTION AND OVERHEAD (6%)				118
TOTAL REQUEST				2,085
TOTAL REQUEST (ROUNDED)				2,095
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(25,000)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab. Precast concrete walls and sloped metal roof. Electrical, mechanical, fire detection/suppression system, and necessary prewiring. Alterations include renovating an admin area and computer training area. Includes utility support, vehicle parking, access roads, and area landscaping.
Air Conditioning: 50 KW.

11. REQUIREMENT: 2,174 SM ADEQUATE: 0 SUBSTANDARD: 1,174 SM
PROJECT: Add to and alter flight simulator. (New Mission)
REQUIREMENT: A C-17 bay is required to house new six-axes flight simulator for the C-17 aircrew training program. This simulator will provide initial training, qualification, proficiency, and effective mission procedures training. This simulator is essential to provide hazardous/emergency training procedures that otherwise could not be provided. This project constructs a third bay (C-17) to an existing two bay (C-141) simulator facility. One of the two existing C-141 bays will be altered to provide required admin and computer training space. This project will be construction complete 4Q/98. An additional nine months is then required for installation and testing of the simulator equipment, cadre training and familiarization, and initial crew training. This project is required to be fully operational to support the delivery ofthe C-17 aircraft at McChord in 4Q/99.
CURRENT SITUATION: Aircrew training is provided by a C-141 six-axes simulator and an Air Refueling Part Task Trainer (ARPTT) which are not compatible with C-17 training. The construction of an additional bay is required to support the C-17 aircrew training.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 ADD TO AND ALTER FLIGHT SIMULATOR	PQWY973050

IMPACT IF NOT PROVIDED: The beddown of the C-17 aircraft could not be accomplished without providing an adequate flight simulator facility for training aircrews to include emergency procedures training not possible in aircraft. Formal training for C-17 aircrews is based on a higher simulator to flying hour ratio than current weapon systems. Scheduled use rate at 347 days/year, 16 hours/day will have to be transferred to Charleston or Altus AFB, overloading those resources. Delay in providing requested construction will create a $20,000/month storage fee for each simulator already on contract and $200,000/year fee tosurge existing simulators to meet training requirements.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, and new construction) was done. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 ADD TO AND ALTER FLIGHT SIMULATOR	PQWY973050

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	96 JAN 30
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	1%
(d)	Date 35% Designed.	96 JUL 05
(e)	Date Design Complete	96 DEC 20
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	125
(b)	All Other Design Costs	215
(c)	Total	340
(d)	Contract	238
(e)	In-house	102
(4)	Construction Start	97 MAY

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
C-17 FLIGHT SIMULATOR DEVICE	3010	FY1997	25000

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCHORD AIR FORCE BASE, WASHINGTON	C-17 MAINTENANCE TRAINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	171-618	PQWY973051	5,685

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 MAINTENANCE TRAINING FACILITY	SM	2,900	1,400	4,060
SUPPORTING FACILITIES				1,040
UTILITIES	LS			(340)
PAVEMENTS	LS			(290)
SITE IMPROVEMENTS	LS			(225)
COMMUNICATIONS PRE-WIRING	SM	2,900	64	(185)
SUBTOTAL				5,100
CONTINGENCY (5%)				255
TOTAL CONTRACT COST				5,355
SUPERVISION, INSPECTION AND OVERHEAD (6%)				321
TOTAL REQUEST				5,676
TOTAL REQUEST (ROUNDED)				5,685

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab. Masonry exterior walls with brick veneer, standing seam sloped metal roof. Electrical, mechanical, fire detection/suppression systems, and prewiring to accommodate required communications and data services. Necessary utility support and exterior site improvements to include vehicle parking, access roads and area landscaping.
Air Conditioning: 120 KW.

11. REQUIREMENT: 2,900 SM ADEQUATE: 0 SUBSTANDARD: 1,719 SM
PROJECT: Construct C-17 Maintenance Training Facility. (New Mission)
REQUIREMENT: An adequate facility is required to house the C-17 Field Training Facility (FTF). This facility will house the large scale mock-ups, tools and classrooms to provide specialized hands-on instruction for C-17 maintenance. Classrooms and training devices must be collocated in a single facility. This project wil be construction complete 4Q/98. An additional nine months is then required for installation and testing of equipment and cadre training and familiarization. This facility is required to be fully operational to support the delivery of the C-17 aircraft at McChord in 4Q/99.
CURRENT SITUATION: The existing 1719 square meter training facility is configured for C-141 training aids. It cannot accommodate additional training requirements and full scale aircraft training devices/mock-ups associated with the larger C-17s. Due to the configuration and size of the facility and the increased space driven by the large training devices, is not economically feasible to alter the existing facility.
IMPACT IF NOT PROVIDED: The assigned aircraft maintenance personnel will not receive on-going training needed to maintain required proficiency.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 MAINTENANCE TRAINING FACILITY	PQWY973051

Personnel will have to be flown to Altus or Charleston AFB, increasing operational costs or an operational C-17 aircraft would have to be taken off-line to perform required training--A loss of one operational aircraft. ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the ctiteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, and new construction) was done. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 MAINTENANCE TRAINING FACILITY	POWY973051

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	96 JAN 26
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	1%
(d) Date 35% Designed.	96 JUL 12
(e) Date Design Complete	96 DEC 27
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	CHARLEST
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	341
(b) All Other Design Costs	229
(c) Total	570
(d) Contract	399
(e) In-house	171
(4) Construction Start	97 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCHORD AIR FORCE BASE, WASHINGTON	C-17 FUEL CELL MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	211-179	PQWY973053	7,480

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 FUEL CELL MAINTENANCE FACILITY	SM	3,150	1,700	5,355
SUPPORTING FACILITIES				1,365
UTILITIES	LS			(530)
PAVEMENTS	LS			(445)
SITE IMPROVEMENTS	LS			(365)
COMMUNICATIONS PRE-WIRING	SM	275	91	(25)
SUBTOTAL				6,720
CONTINGENCY (5%)				336
TOTAL CONTRACT COST				7,056
SUPERVISION, INSPECTION AND OVERHEAD (6%)				423
TOTAL REQUEST				7,479
TOTAL REQUEST (ROUNDED)				7,480

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab. Steel frame with metal panel siding and roof. Electrical, mechanical, fire detection/suppression systems, explosion proof fixtures, spill containment, and prewiring to accommodate required communications and data services. Necessary utility support and exterior site improvements including vehicle parking, access roads and landscaping

11. REQUIREMENT: 3,150 SM ADEQUATE: 0 SUBSTANDARD: 1,785 SM

PROJECT: Construct C-17 Fuel Cell Maintenance Facility. (New Mission)

REQUIREMENT: An adequate facility is needed to provide the sufficient height and width clearance required to allow fuel cell maintenance on the C-17 aircraft. In-tank maintenace tasks require aircraft to be in a controlled environment for safety, environmental and fuel contamination requirements. If in-tank maintenance is performed outside, weather conditions can force the delay or termination of fuel cell maintenance activities. This project will be construction complete 3Q/99 and is required to be operational to support the beddown of the C-17 aircraft commencing 4Q/99.

CURRENT SITUATION: The existing C-141 fuel cell is not large enough and cannot be economically upgraded to house the C-17 aircraft. The projected number of aircraft slated for this base (48 primary assigned aircraft) justify the need for a C-17 fuel cell maintenance facility. The weather conditions in the Pacific Northwest, with the six month rainy season, are such that an enclosed fuel cell is mandatory to meet required departure reliability rates.

IMPACT IF NOT PROVIDED: Unfavorable weather conditions will delay fuel cell maintenance, force aircraft to be gounded, and potentially degrade mission capability. In addition, the uncontrolled maintenance environment

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 FUEL CELL MAINTENANCE FACILITY	PQWY973053

will create unsafe working conditions and potential environmental pollution.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, and new construction) was done. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 FUEL CELL MAINTENANCE FACILITY	PQWY973053

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	96 JAN 30
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	1%
(d) Date 35% Designed.	96 JUL 10
(e) Date Design Complete	96 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	ALTUS
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	448
(b) All Other Design Costs	302
(c) Total	750
(d) Contract	550
(e) In-house	200
(4) Construction Start	97 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCHORD AIR FORCE BASE, WASHINGTON	C-17 CORROSION CONTROL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	211-159	PQWY973054	11,570

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 CORROSION CONTROL FACILITY	SM	4,350	2,000	8,700
SUPPORTING FACILITIES				1,695
UTILITIES	LS			(1,100)
PAVEMENTS	LS			(400)
SITE IMPROVEMENTS	LS			(175)
COMMUNICATIONS PRE-WIRING	SM	275	73	(20)
SUBTOTAL				10,395
CONTINGENCY (5%)				520
TOTAL CONTRACT COST				10,915
SUPERVISION, INSPECTION AND OVERHEAD (6%)				655
TOTAL REQUEST				11,570
TOTAL REQUEST (ROUNDED)				11,570

10. Description of Proposed Construction: Reinforced concrete foundations and floor slab. Steel frame with metal panel siding and roof. Electrical, mechanical, fire detection/suppression systems, and necessary pre-wiring to accommodate required communications and data services. Necessary utility support and exterior site improvements to include vehicle parking and access roads.

11. REQUIREMENT: 4,350 SM ADEQUATE: 0 SUBSTANDARD: 3,576 SM

PROJECT: Construct a C-17 corrosion control facility. (New Mission)

REQUIREMENT: A facility is required for aircraft and ground support equipment preventive corrosion control maintenance for C-17 aircraft. New mission construction is required to safely enclose the larger C-17 tail height clearance. The C-17 has a 60 day scheduled wash requirement. Washing aircraft and/or performing corrosion control maintenance in an enclosed facility is necessary for climatic temperature control, hot water needs, and for controlling pollutants. This facility must have sufficient lighting, heating, ventilation, and fire protection equipment to ensure a properly outfitted and safe facility to perform the maintenance and servicing of the C-17 aircraft. This project will be construction complete 3Q/99 and is required to be operational to support the delivery of the C-17 aircraft at McChord in 4Q/99.

CURRENT SITUATION: Currently there are no facilities which can totally enclose the C-17 aircraft to perform corrosion control maintenance. The hangar currently used for C-141 corrosion control does not adequately meet height requirements for the C-17 aircraft and cannot be modified to accommodate the C-17.

IMPACT IF NOT PROVIDED: The C-17 Service Life Policy contract will be voided if this project is not accomplished. Without this facility, delays

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
MCCHORD AIR FORCE BASE, WASHINGTON	
4. PROJECT TITLE	5. PROJECT NUMBER
C-17 CORROSION CONTROL FACILITY	PQWY973054

in corrosion control would be experienced due to inclement weather. Cleaning agents, corrosion treatment chemicals, and paint removers would not be allowed to dry on aircraft due to wet or freezing conditions. In addition, servicing of all aircraft would be significantly impacted, thus decreasing their life span.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, and new construction) was done. It indicates that new construction is the only option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 CORROSION CONTROL FACILITY	PQWY973054

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 JAN 26
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	1%
(d) Date 35% Designed.	96 JUL 12
(e) Date Design Complete	96 DEC 19
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	ALTUS
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	694
(b) All Other Design Costs	466
(c) Total	1160
(d) Contract	812
(e) In-house	348
(4) Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCHORD AIR FORCE BASE, WASHINGTON	C-17 BEDDOWN SUPPORT UTILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	800-000	PQWY973052	5,985

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 BEDDOWN SUPPORT UTILITIES	LS			5,323
ROADS/SECURITY	LS			(415)
WATER SUPPLY	LS			(215)
GAS SUPPLY	LM	1,650	32	(53)
STEAM HEATING SYSTEM	LM	850	1,400	(1,190)
ELECTRICAL DISTRIBUTION/SUBSTATION	LS			(1,335)
STORM DRAINAGE/OIL-WATER SEPARATOR	LS			(1,112)
COMMUNICATIONS	LS			(1,003)
SUPPORTING FACILITIES				55
DEMOLITION	SM	230	239	(55)
SUBTOTAL				5,378
CONTINGENCY (5%)				269
TOTAL CONTRACT COST				5,647
SUPERVISION, INSPECTION AND OVERHEAD (6%)				339
TOTAL REQUEST				5,986
TOTAL REQUEST (ROUNDED)				5,985

10. Description of Proposed Construction: Upgrade and construct additional utilities including new cross-taxiway road with traffic control system and security fencing, electrical transformer/sub-station, and underground distribution for commuications, electric, sewer, water, gas, and steam lines. Includes demolition (2 buildings) of 233 SM of substandard facilities in the way of construction.

11. REQUIREMENT: As required.

PROJECT: C-17 Beddown Support Utilities (New Mission)

REQUIREMENT: Utilities upgrades are required to support the planned additional C-17 support facilities. A new 20MVA electrical sub-station is required to allow redistribution of the electrical loads to support the additional C-17 facilities. The upgrading and construction of additional underground distribution systems for communications, primary electrical distribution, sewer, water, gas, steam lines, and a cross-taxiway road with traffic signals and security fencing, are required to provide necessary supporting utilities for the planned C-17 facilities. This project will be construction complete 4Q/98 and must parallel the construction of of the ADAL Flight Simulator and the Field Training Facility in order to provide utilities for training equipment and facility operations to support the delivery of the C-17 aircraft at McChord in 4Q/99.

CURRENT SITUATION: The utilities required to support the planned C-17 facilities do not currently exist in the required areas. The existing support systems are currently at maximum, or in some cases, over-capacity and cannot adequately support the increased utility demands of the additional C-17 facilities.

IMPACT IF NOT PROVIDED: Required utilities will not be available to

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 BEDDOWN SUPPORT UTILITIES	PQWY973052

support the new or modified facilities for the C-17 beddown.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2 "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, and new construction) was done. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 BEDDOWN SUPPORT UTILITIES	PQWY973052

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	96 JAN 27
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	1%
(d)	Date 35% Designed.	96 JUL 12
(e)	Date Design Complete	96 DEC 31
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	330
(b)	All Other Design Costs	330
(c)	Total	660
(d)	Contract	495
(e)	In-house	165
(4)	Construction Start	97 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCHORD AIR FORCE BASE, WASHINGTON	C-17 ALTER HYDRANT FUELING SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	113-321	PQWY973056	1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 ALTER HYDRANT FUELING SYSTEM				930
RELOCATE HYDRANT FUELING SYST/OUTLETS	EA	6	155,000	(930)
SUBTOTAL				930
CONTINGENCY (10%)				93
TOTAL CONTRACT COST				1,023
SUPERVISION, INSPECTION AND OVERHEAD (6%)				61
TOTAL REQUEST				1,084
TOTAL REQUEST (ROUNDED)				1,100

10. Description of Proposed Construction: Relocate 6 fuel pits on "Delta" ramp to allow access for the larger C-17 aircraft. Support as required.

11. REQUIREMENT: As required.
PROJECT: C-17 Alter hydrant fueling system.(New Mission)
REQUIREMENT: Relocate 6 hydrant outlets to provide a total of 7 C-17 parking spaces on "D" ramp. Hydrants must be relocated to provide the required 50 foot wingtip clearance for C-17 aircraft. This system will provide the refueling capacity to meet the short turn-around times necessary to accomplish mission requirements. This project will be construction complete 3Q/99 and is required to be operational to support the delivery of the C-17 aircraft at McChord in 4Q/99.
CURRENT SITUATION: The current location of the 6 refueling hydrants will not provide the required 50 foot wingtip clearances for the new aircraft and therefore must be moved. The location of the existing hydrants on "D" ramp are spaced to support C-141 aircraft and provide 25 foot wingtip clearances.
IMPACT IF NOT PROVIDED: Programmed utilization rates will be jeopardized without sufficient hydrant refueling capabilities. Aircraft will not meet the required peacetime turn-around time of 2 hours and 15 minutes or 1 hour during contingency operations. Aircraft will be required to be refueled by truck requiring additional personnel and increasing the fueling and turn-around time to 4 hours. Costs of additional manpower and additional trucks would exceed $35 Million over the next thirty years.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
MCCHORD AIR FORCE BASE, WASHINGTON	
4. PROJECT TITLE	5. PROJECT NUMBER
C-17 ALTER HYDRANT FUELING SYSTEM	PQWY973056

86-2, "Standard Facility Requirements".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 ALTER HYDRANT FUELING SYSTEM	PQWY973056

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	96 JAN 26
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	1%
(d) Date 35% Designed.	96 JUL 12
(e) Date Design Complete	96 DEC 31
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	66
(b) All Other Design Costs	44
(c) Total	110
(d) Contract	80
(e) In-house	30
(4) Construction Start	97 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCHORD AIR FORCE BASE, WASHINGTON	C-17 ADD TO AND ALTER AVIONICS MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	217-712	PQWY973057	1,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 ADD TO AND ALTER AVIONICS MAINTENANCE FACILITY	SM	1,850		891
ADD AVIONICS SHOP	SM	550	1,100	(605)
ALTER AVIONICS SHOP	SM	1,300	220	(286)
SUPPORTING FACILITIES				210
UTILITIES	LS			(75)
PAVEMENTS	LS			(60)
SITE IMPROVEMENTS	LS			(35)
COMMUNICATIONS PRE-WIRING	SM	650	62	(40)
SUBTOTAL				1,101
CONTINGENCY (10%)				110
TOTAL CONTRACT COST				1,211
SUPERVISION, INSPECTION AND OVERHEAD (6%)				73
TOTAL REQUEST				1,284
TOTAL REQUEST (ROUNDED)				1,300

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls, and sloped, built-up roof. Electrical, mechanical, fire detection/suppression systems, and prewiring to accommodate required communications and data services. Necessary utility support and exterior site improvements including vehicle parking, access roads and area landscaping.
Air Conditioning: 20 KW.

11. REQUIREMENT: 1,850 SM ADEQUATE: 0 SUBSTANDARD: 1,292 SM
PROJECT: C-17 Add to and Alter Avionics Maintenance Facility. (New Mission)
REQUIREMENT: A Properly configured avionics maintenance shop is required for base level C-17 aircraft avionics maintenance and an additional 550 SM of avionics shop for regional C-17 maintenance. Facility is required to bench check, test, and repair avionics components to find or verify faults or failures in C-17 aircraft equipment and accessories to include airborne communications, cameras, and tactical support element/communications security (TSEC/COMSEC) equipment (includes secure voice, identification friend or foe (IFF), selective identification feature (SIF), data link pods, etc.) This project will be construction complete 2Q/99. An additional 3 months is then required for installation and testing of avionics equipment. This facility is required to be fully operational to support the delivery of the C-17 aircraft at McChord in 4Q 99.
CURRENT SITUATION: There are no existing facilities available for regional avionics maintenance for C-17 aircraft. The existing base-level avionics maintenance facility was constructed nearly thirty years ago and is currently configured for C-141 aircraft avionics maintenance. The

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 ADD TO AND ALTER AVIONICS MAINTENANCE FACILITY	PQWY973057

facility is improperly configured for C-17 aircraft avionics maintenance. The C-17 aircraft has a higher reliance on Automatic Test Equipment maintenance and the avionics shop must provide this capability for the necessary measurement stimuli interface, power, test control monitor, and operator capabilities to fault detect, fault isolate, and verify the operational integrity of C-17 avionics equipment. The existing facility does not comply with facility standards for avionics maintenance.
IMPACT IF NOT PROVIDED: Programmed utilization rates will be jeopardized due to inadequate maintenance facilities. Without the requested facilities, avionics components requiring maintenance will be required to be shipped to Charleston AFB or civilian contractor incurring lengthy shipping and turn-around times. Potential exists for a resultant spare parts shortage affecting mission capability and subsequent impacts on programmed utilization rates for the C-17 aircraft.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 ADD TO AND ALTER AVIONICS MAINTENANCE FACILITY	PQWY973057

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	96 JAN 26
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	1%
(d) Date 35% Designed.	96 JUL 12
(e) Date Design Complete	96 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
	($000)
(3) Total Cost (c) = (a) + (b) or (d) + (e):	
(a) Production of Plans and Specifications	78
(b) All Other Design Costs	100
(c) Total	178
(d) Contract	128
(e) In-house	50
(4) Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCHORD AIR FORCE BASE, WASHINGTON	C-17 MODULAR REPLACEMENT CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	211-157	PQWY973058	16,460

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 MODULAR REPLACEMENT CENTER	SM	8,500	1,400	11,900
SUPPORTING FACILITIES				2,885
UTILITIES	LS			(1,085)
PAVEMENTS	LS			(725)
SITE IMPROVEMENTS	LS			(415)
RELOCATION	LS			(620)
COMMUNICATIONS PRE-WIRING	SM	550	73	(40)
SUBTOTAL				14,785
CONTINGENCY (5%)				739
TOTAL CONTRACT COST				15,524
SUPERVISION, INSPECTION AND OVERHEAD (6%)				931
TOTAL REQUEST				16,455
TOTAL REQUEST (ROUNDED)				16,460

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab. Steel frame with metal panel siding and roof. Electrical, mechanical, fire detection/suppression systems, and pre-wiring to accommodate required communications and data service. Necessary utility support and exterior site improvements including vehicle parking, access and landscaping.

11. REQUIREMENT: 8,500 SM ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct C-17 modular replacement center. (New Mission)

REQUIREMENT: Properly sized and configured facilities are required for intermediate maintenance, repair and temporary storage of C-17 jet engine modules, accessories and support equipment. Specialized maintenance space and a overhead cranes system are required to perform the module replacement activities unique to this aircraft and maintenance function. This project will be construction complete in 4Q/99 and is required to meet the delivery of the C-17 aircraft at McChord in 4Q/99.

CURRENT SITUATION: No west coast regional module replacement center (MRC) currently exists to provide adequate maintenance operations for C-17 jet engines. The existing engine shop is severely undersized and will not accommodate the required space necessary to support western regional maintenance requirements. This facility will be constructed on the site of an old aircraft washrack with an adjoining oil/water separator that must be relocated as part of this project.

IMPACT IF NOT PROVIDED: It will not be possible to provide required maintenance on the C-17 aircraft at this base without requested construction. If project is delayed, there would be a potential to incur an additional $10M to $15M a year to pay for an extra C-17 engine per 4 aircraft, associated additional maintenance personnel costs and shipping

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
MCCHORD AIR FORCE BASE, WASHINGTON	
4. PROJECT TITLE	5. PROJECT NUMBER
C-17 MODULAR REPLACEMENT CENTER	PQWY973058

costs. Lack of adequate aircraft maintenance could jeopardize the lives of the aircrew and/or loss of a $300 million aircraft.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, and new construction) was done. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 MODULAR REPLACEMENT CENTER	PQWY973058

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	96 JAN 26
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	1%
(d) Date 35% Designed.	96 JUL 12
(e) Date Design Complete	96 DEC 31
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	CHARLEST
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	986
(b) All Other Design Costs	914
(c) Total	1900
(d) Contract	1330
(e) In-house	570
(4) Construction Start	97 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCHORD AIR FORCE BASE, WASHINGTON	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	721-312	PQWY983005	5,390

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (72 PN)	SM	2,400	1,300	3,120
SUPPORTING FACILITIES				1,710
UTILITIES	LS			(200)
SITE IMPROVEMENTS	LS			(115)
PAVEMENTS	LS			(175)
COMMUNICATIONS WIRING	LS			(140)
ASBESTOS REMOVAL/DISPOSAL	SM	2,800	93	(260)
DEMOLITION/DISPOSAL	SM	4,550	180	(820)
SUBTOTAL				4,830
CONTINGENCY (5%)				242
TOTAL CONTRACT COST				5,072
SUPERVISION, INSPECTION AND OVERHEAD (6%)				304
TOTAL REQUEST				5,376
TOTAL REQUEST (ROUNDED)				5,390

10. Description of Proposed Construction: A three-story structure with reinforced concrete foundation and floor slabs, masonry walls, roof, and fire protection. Site work to improve drainage and provide appropriately landscaped "green area" within the dorm campus. Includes room-bath-room modules, laundries, storage and lounge areas, and all necessary support. Project also includes the demolition of two central latrine dormitories. Air Conditioning: 230 KW. Grade Mix: 72 E1-E4.
Maximum Utilization: 72 Personnel

11. REQUIREMENT: 900 PN ADEQUATE: 666 PN SUBSTANDARD: 144 PN
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment project. It is a major Air Force objective to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: There are currently not enough adequate dormitories to meet the billeting requirements of unaccompanied enlisted personnel at this installation. The two 1953 substandard central gang latrine dormitories (72 rooms and 2,275 SM each) to be replaced do not provide adequate heating and air conditioning, sufficient noise attenuation, or necessary amenities to adequately house enlisted personnel. They also do not conform to current fire protection standards and are entirely uninhabitable.
IMPACT IF NOT PROVIDED: Substandard living conditions will persist degrading morale, productivity, and career satisfaction for the enlisted

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
MCCHORD AIR FORCE BASE, WASHINGTON	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	PQWY983005

personnel. Excessive energy consumption and maintenance costs will continue if these inefficiencies and substandard facilities remain in use. ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, sending personnel off base paying BAQ/VHA, and status quo. Based on the present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	PQWY983005

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 SEP 30
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	96 JAN 01
(e)	Date Design Complete	96 SEP 30
(2) Basis:		
(a)	Standard or Definitive Design -	
(b)	Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	270
(b)	All Other Design Costs	190
(c)	Total	460
(d)	Contract	360
(e)	In-house	100
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
RAMSTEIN AIR BASE, GERMANY	UNITED STATES AIR FORCES IN EUROPE	1.63

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1142	6036	2766				193	435	83	10,655
b. End FY 2001	1139	6152	2751				242	537	68	10,889

7. INVENTORY DATA ($000)

a. Total Acreage: (3,102)	
b. Inventory Total As Of: (30 SEP 95)	261,956
c. Authorization Not Yet In Inventory:	5,260
d. Authorization Requested In This Program:	5,370
e. Authorization Included In Following Program: (FY 1998)	4,250
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	276,836

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	DORMITORY	94 PN	5,370	JUN 95	JUN 96
		TOTAL:	5,370		

9a. Future Projects: Included in the Following Program (FY 1998)

442-758	BASE SUPPLIES AND EQUIPMENT WAREHOUSE	2,200 SM	4,250		
		TOTAL:	4,250		

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: The host airlift wing supports a C-130 airlift squadron, an airlift squadron of C-20, C-21, and CT-43 aircraft, and a C-9 aeromedical airlift squandron. Ramstein AB also hosts Headquarters United States Air Forces in Europe (USAFE) and Headquarters Allied Air Forces Central Europe (AIRCENT) and supports an air mobility group.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	2,900
c. Occupational safety and health:	1,000
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	721-312	TYFR973048	5,370

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (94 PN)	SM	3,150	1,300	4,095
SUPPORTING FACILITIES				715
UTILITIES	LS			(335)
SITE IMPROVEMENT	LS			(120)
PAVEMENTS	LS			(225)
COMMUNICATIONS SUPPORT	LS			(35)
SUBTOTAL				4,810
CONTINGENCY (5%)				241
TOTAL CONTRACT COST				5,051
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				328
TOTAL REQUEST				5,379
TOTAL REQUEST (ROUNDED)				5,370

FCF BUDGET RATE USED: DEUTSCHE MARK 1.57

10. Description of Proposed Construction: Construct a two-story structure with reinforced concrete foundation and floor slabs, masonry walls, roof, fire protection, and site improvements. Includes room-bath-room modules, laundries, storage and lounge areas and all necessary support.
Grade Mix: 94 E1-E4.
Maximum Utilization: 94 Personnel

11. REQUIREMENT: 3,278 PN ADEQUATE: 1,470 PN SUBSTANDARD: 574 PN
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level 1 Commander's Facility Assessment requirement. It is a major Air Force objective is to provide unaccompanied personnel with housing that will be conducive to their proper rest, relaxation, and personal well being. Properly designed and furnished quarters which will provide some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs that junior enlisted personnel must perform.
CURRENT SITUATION: There are currently not enough adequate dormitories to accommodate the unaccompanied enlisted personnel at this base. Too many unaccompanied enlisted personnel assigned to Ramstein AB live in substandard dormitories or are forced to live in expensive off-base quarters. This project provides dormitory space consistent with modern Air Force standards, and will allow residents to have private rooms.
IMPACT IF NOT PROVIDED: Substandard living conditions will persist degrading morale, productivity, and career satisfaction for unaccompanied enlisted personnel.
ADDITIONAL: This project is not eligible for NATO funding. This project

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
RAMSTEIN AIR BASE, GERMANY	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	TYFR973048

meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Fire protection systems for this project meet new standards established in MIL-HNBK 1008B, Fire Protection for Facilities.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
RAMSTEIN AIR BASE, GERMANY	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	TYFR973048

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 JUN 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 OCT 01
(e)	Date Design Complete	96 JUN 01
(2) Basis:		
(a)	Standard or Definitive Design -	
(b)	Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	322
(b)	All Other Design Costs	203
(c)	Total	525
(d)	Contract	525
(e)	In-house	
(4)	Construction Start	96 NOV

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
SPANGDAHLEM AIR BASE, GERMANY	UNITED STATES AIR FORCES IN EUROPE	1.63

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	330	3826	695				13	62	107	5,033
b. End FY 2001	334	4051	701				13	62	107	5,268

7. INVENTORY DATA ($000)

a. Total Acreage: (1,282)	
b. Inventory Total As Of: (30 SEP 95)	122,808
c. Authorization Not Yet In Inventory:	9,473
d. Authorization Requested In This Program:	1,890
e. Authorization Included In Following Program: (FY 1998)	23,200
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	157,371

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
130-142	FIRE STATION	600 SM	1,890	JUN 95	JUN 96
		TOTAL:	1,890		

9a. Future Projects: Included in the Following Program (FY 1998)

141-753	CONSOLIDATED AIR CONTROL SQUADRON OPERATIONS FACILITY	1,300 SM	4,050
721-312	DORMITORY	90 PN	7,800
721-312	DORMITORY	90 PN	8,200
721-312	DORMITORY	40 PN	3,150
		TOTAL:	23,200

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: The host fighter wing supports two F-16 squadrons, one F-15C/D air superiority squadron and an A-10 squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE, GERMANY	FIRE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96	130-142	BJAG963102	1,890

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE STATION	SM	600	1,900	1,140
SUPPORTING FACILITIES				550
UTILITIES	LS			(220)
SITE IMPROVEMENTS	LS			(95)
PAVEMENTS	SM	2,000	100	(200)
DEMOLITION	SM	190	184	(35)
SUBTOTAL				1,690
CONTINGENCY (5%)				85
TOTAL CONTRACT COST				1,775
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				115
TOTAL REQUEST				1,890
TOTAL REQUEST (ROUNDED)				1,890

FCF BUDGET RATE USED: DEUTSCHE MARK 1.57

10. Description of Proposed Construction: Construct a fire station with 4 vehicle bays, reinforced concrete foundation/floor slabs, masonry walls. Construction to include roll up doors, apparatus room with maintenance pit, fire protection system, oil/water separator, and living quarters. Project includes all necessary utilities, site work, and demolition of an existing facility.

11. REQUIREMENT: 966 SM ADEQUATE: 366 SM SUBSTANDARD: 0
PROJECT: Construct a fire station. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. An increase of fire fighting capacities in this area is required due to the loss of the support previously provided by the Bitburg Air Base fire station. Fire fighting must be provided for the military family housing area and Kaserne, once part of Bitburg AB and now annexed to support operations at Spangdahlem AB. The station must be manned 24 hours a day, 7 days a week with overnight accommodations provided for fire fighting personnel assigned to 24-hour shifts. A drive thru maintenance bay is required for the maintenance of the P-24 fire trucks.
CURRENT SITUATION: Due to the closure of Bitburg AB, the required fire fighting support for the military family housing and Kaserne is no longer available. The Kaserne (historical site) area was serviced by the Bitburg fire station (closed) while the housing area is supported by a small fire station. The fire station is not suitable for the increased Kaserne fire fighting mission which requires much larger ladder trucks and larger teams of fire fighters. Due to its site constraints and inadequate structural configuration, the existing facility will be converted to another use. The Spangdahlem AB fire station is approximately 12.6 miles away and cannot meet the required response time especially during inclement

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SPANGDAHLEM AIR BASE, GERMANY

4. PROJECT TITLE	5. PROJECT NUMBER
FIRE STATION	BJAG963102

weather. DoD requires 50 percent of water flow to be at the scene of a fire in 5 minutes for a hospital and 9 minutes for family housing. The Kaserne area has both types of facilities. The fire station clocked driving time from Spangdahlem AB to the Kaserne at 21 minutes in light traffic and good weather and 31 minutes in inclement weather. An existing warehouse totalling 186 square meters will be demolished as part of this project. The new fire station will be built in its place.

IMPACT IF NOT PROVIDED: Fire protection within the housing and Kaserne areas annexed to Spangdahlem will continue to be insufficient, putting families and Air Force property at risk. Continued exposure to outside weather conditions will accelerate the deterioration of the fire trucks. Readiness and response times for the Spangdahlem fire fighting units will continue to be hindered by extreme weather conditions (fog, ice, and snow storms etc.)

ADDITIONAL: This project is not eligible for NATO funding. This project meets the criteria/scope in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SPANGDAHLEM AIR BASE, GERMANY

4. PROJECT TITLE	5. PROJECT NUMBER
FIRE STATION	BJAG963102

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 JUN 01
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	95 OCT 01
(e) Date Design Complete	96 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	110
(b) All Other Design Costs	68
(c) Total	178
(d) Contract	178
(e) In-house	
(4) Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
AVIANO AIR BASE, ITALY	UNITED STATES AIR FORCES IN EUROPE	1.22

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	293	2867	576				102	479	172	4,489
b. End FY 2001	297	3028	579				38	180	110	4,232

7. INVENTORY DATA ($000)

a. Total Acreage: (989)	
b. Inventory Total As Of: (30 SEP 95)	26,701
c. Authorization Not Yet In Inventory:	2,150
d. Authorization Requested In This Program:	10,060
e. Authorization Included In Following Program: (FY 1998)	26,150
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	29,750
h. Grand Total:	94,811

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
610-243	CONSOLIDATED SUPPORT CENTER	2,800 SM	5,225	AUG 95	JUL 96
812-223	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	LS	1,935	AUG 95	JUL 96
842-245	UPGRADE FLIGHTLINE WATER DISTRIBUTION SYSTEM	LS	2,900	AUG 95	AUG 96
		TOTAL:	10,060		

9a. Future Projects: Included in the Following Program (FY 1998)

171-212	F-16 FLIGHT SIMULATOR	2,100 SM	1,650
724-417	TRANSIENT DORMITORY	4,800 SM	7,200
730-142	FIRE STATION (US SHARE)	1,380 SM	2,800
832-266	WASTE WATER DISPOSAL SYSTEM AREAS D, E, & F	LS	8,000
851-147	ROADS AND UTILITIES	38,600 SM	6,500
		TOTAL:	26,150

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: The host fighter wing supports two permanently assigned F-16 squadrons and a regional support group. Aviano AB also hosts Headquarters Sixteenth Air Force and supports the multiservice/multinational OPERATION JOINT ENDEAVOUR.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	2,900
b. Water pollution:	3,800
c. Occupational safety and health:	1,500
d. Other Environmental:	1,700

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AVIANO AIR BASE, ITALY	CONSOLIDATED SUPPORT CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	610-243	ASHE973001	5,225

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED SUPPORT CENTER				3,920
CONSOLIDATED SUPPORT CENTER	SM	2,800	1,400	(3,920)
SUPPORTING FACILITIES				750
OTILITIES	LS			(205)
PAVEMENTS	LS			(375)
SITE IMPROVEMENTS	LS			(165)
DEMOLITION	SM	57	88	(5)
SUBTOTAL				4,670
CONTINGENCY (5%)				234
TOTAL CONTRACT COST				4,904
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				319
TOTAL REQUEST				5,223
TOTAL REQUEST (ROUNDED)				5,225

FCF BUDGET RATE USED: LIRA 1,617.60

10. Description of Proposed Construction: A new two story building with reinforced concrete foundation and floor slabs, structural steel frame, stucco exterior with masonry walls, and clay tile roof. Project includes all electrical, mechanical, fire protection, sitework, landscaping, pavement, necessary utilities to support administrative functions, and demolition of one substandard facility.
Air Conditioning: 150 KW.

11. REQUIREMENT: 2,800 SM ADEQUATE: 0 SUBSTANDARD: 2,965 SM
PROJECT: Construct a consolidated support center. (Current Mission)
REQUIREMENT: This is a level I Commander's Facility Assessment requirement. An adequate and functional facility is required to support the consolidation of administrative and financial activities. These activities, which include the support group commander, military personnel flight, base personnel office, Judge Advocate General (JAG), services commander, and the base finance office, are located in several small, geographically separated facilities. They need to be consolidated into one central mutli-story facility to improve land use, command and control, and customer responsiveness.
CURRENT SITUATION: There is presently no facility on base with sufficient space and of adequate condition to support the consolidation of several critical administrative and support functions. Because of the F-16 beddown, the base currently suffers a tremendous administrative space and land use shortfall. Aviano's base population has more than doubled, from 2000 to over 4200, in a few short years. Most operations are squeezed together in substandard facilities. Also, several of these facilities are dispersed geographically and approximately 10 miles away from their

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

AVIANO AIR BASE, ITALY

4. PROJECT TITLE	5. PROJECT NUMBER
CONSOLIDATED SUPPORT CENTER	ASHE973001

customers who are located at the flightline area. The facilities used to support administrative functions were converted from other functional uses and are not provided with adequate data distribution systems or interconnected with a main data processing center. The dispersion of these functions makes it difficult for the commander to maintain control and for the customers to find and use the facilities. Aviano is made up of seven geographically separated areas, each with little room for expansion. Upon completion of this project, one substandard facility totalling 57 square meters will be demolished. The remaining 2,908 SM of substandard space will be converted under a separate project to provide interim space for other shortfalls.

IMPACT IF NOT PROVIDED: Without this project the main support group administrative functions will continue to be performed from substandard, geographically separated facilities and there will be a domino affect on the surrounding facilities needed for other uses. This negatively impacts the quality and standards of operations, services for the base, and future development of the support areas.

ADDITIONAL: This project is being submitted for NATO funding. Traditionaly it is not eligible for NATO funding. It is being submitted based on NATO's support for the Southern Region Fighter Presence. USAFE as a matter of military urgency intends to prefinance the project to meet mission beddown requirements. A precautionary prefinancing statement will be submitted. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing, and status quo operation. Based on the net present values and benefits of the repective alternatives, new construction was found to be the most efficient over the life of the project. c

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

AVIANO AIR BASE, ITALY

4. PROJECT TITLE	5. PROJECT NUMBER
CONSOLIDATED SUPPORT CENTER	ASHE973001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 AUG 01
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	96 JAN 01
(e) Date Design Complete	96 JUL 20
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	313
(b) All Other Design Costs	303
(c) Total	616
(d) Contract	616
(e) In-house	
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AVIANO AIR BASE, ITALY	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.71.33U	812-223	ASHE943802	1,935

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	LS			1,635
PRIMARY UNDERGROUND DISTRIBUTION LINE	LM	1,350	220	(297)
SECONDARY UNDERGROUND DIST LINE	LM	8,500	68	(578)
CONSTRUCT SUBSTATIONS	LS			(310)
UPGRADE SUBSTATIONS	LS			(410)
REROUTING OVERHEAD MAIN DIST LINE	LS			(40)
SUPPORTING FACILITIES				20
SITE IMPROVEMENTS	LS			(20)
SUBTOTAL				1,655
CONTINGENCY (10%)				166
TOTAL CONTRACT COST				1,821
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				118
TOTAL REQUEST				1,939
TOTAL REQUEST (ROUNDED)				1,935

FCF BUDGET RATE USED: LIRA 1,617.60

10. Description of Proposed Construction: Remove all overhead lines, reroute high voltage main overhead distribution line. Install underground about 9,750 LM of high and low voltage power in utility ducts/manholes throughout the support areas. Construct two new substations with concrete foundations, walls, built-up roof, and all electrical/mechanical work. Upgrade three substations (transformers/switch gear/power panels/cutouts).

11. REQUIREMENT: As required.
PROJECT: Upgrade electrical distribution system. (New Mission)
REQUIREMENT: An upgraded primary and secondary electrical distribution system is required to provide necessary power to existing and future facilities in the support areas at Aviano Air Base. Power demands have significantly increased due to the incorporation of computers in every office and from the increase of base support facilities generated by the beddown of the F-16 squadrons from Ramstein AB, Germany. All of this has generated a need for an upgraded electrical distribution system with a uniform system voltage. This project is also required to relocate an existing high voltage overhead line which is in the way of future construction supporting the mission beddown.
CURRENT SITUATION: The existing electrical distribution systems, installed more than 30 years ago, have surpassed their capacity to functionally supply power to the support areas. Power capacities of aged cables are limited due to their small size which is unsafe and violates the US National Electric Safety Code standards. The low voltage electrical equipment in existing substations is currently operating under outdated electrical codes and is completely saturated by the imposed power demand. To provide adequate power to meet the requirements of existing and future facilities, new substations must be provided.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

AVIANO AIR BASE, ITALY

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	ASHE943802

IMPACT IF NOT PROVIDED: Future construction of new facilities and additions will overload the electrical distribution systems, causing frequent power outages and costly repairs to equipment and power lines. This will negatively impact mission accomplishment and quality of life for personnel working and living in the support areas of the base.
ADDITIONAL: Project is being submitted for NATO funding. Refer to NATO Capability Package 3AO-011, Item 81. USAFE as a matter of military urgency intends to prefinance the subject project to meet mission beddown requirements. A precautionary prefinancing statement will be submitted. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

AVIANO AIR BASE, ITALY

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	ASHE943802

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 AUG 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 DEC 01
(e)	Date Design Complete	96 JUL 20
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	116
(b)	All Other Design Costs	214
(c)	Total	330
(d)	Contract	330
(e)	In-house	
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AVIANO AB, ITALY	UPGRADE FLIGHTLINE WATER DISTRIBUTION SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.71.33U	842-245	ASHE986001	2,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE FLIGHTLINE WATER DISTRIBUTION SYSTEM	LS			2,224
SUPPORTING FACILITIES				390
UTILITIES	LS			(300)
PAVEMENTS	LS			(5)
SITE IMPROVEMENTS	LS			(85)
SUBTOTAL				2,614
CONTINGENCY (5%)				131
TOTAL CONTRACT COST				2,745
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				178
TOTAL REQUEST				2,923
TOTAL REQUEST (ROUNDED)				2,900

FCF BUDGET RATE USED: LIRA 1,617.60

10. Description of Proposed Construction: Install one elevated and one underground storage tank. Add to and alter primary and secondary distribution branches to existing primary water mains, pumphouse, hydrants, shut-off valves and cathodic protection. Includes trenching, backfilling, seeding, pavement repair, and all utilities and necessary support.

11. REQUIREMENT: As required.
PROJECT: Upgrade flightline water distribution system. (New Mission)
REQUIREMENT: An adequate water supply, storage, and distribution system is required to provide water in sufficient volume and pressure to facilities in and around the flightline area for domestic, industrial and, most importantly, fire fighting purposes. A complete and adequately sized water loop system connection between the north and south sites of the airfield is essential to support the facilities and personnel associated with the beddown of the two F-16 fighter squadrons from Ramstein AB, Germany.
CURRENT SITUATION: The existing water distribution system on the flightline does not provide water in sufficient quantity or pressure to meet fire fighting requirements. The limited number of hydrants and small 2" distribution lines severely minimize fire fighting capability. If a fire were to break out on the south side of the flightline, the fire department would have to transport water from the north side to put out the fire. The fire department is unable to meet their required response times. The lack of sufficient water volume and pressure on the south side of the flightline caused the loss of a $151,000 Base Civil Engineer facility which caught fire in 1986. There are currently several million dollars worth of real property and war reserve material, two F-16

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

AVIANO AB, ITALY

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE FLIGHTLINE WATER DISTRIBUTION SYSTEM	ASHE986001

squadrons, and sixteen CH-46 helicopters in this area that do not have adequate fire protection. The existing 189,000 liter elevated tank is too far away from the flightline to provide adequate water pressure to distant hydrants and the 302,000 liter underground storage tank does not allow for sufficient storage.

IMPACT IF NOT PROVIDED: Without this project, adequate fire protection is not available for millions of dollars in Air Force assets. Aggressive fire prevention measures have minimized the risk to life and property so far. However, the base cannot support the new mission with the fire fighting capability it has in the flightline area.

ADDITIONAL: This project is being submitted for NATO funding. Refer to NATO Capability Package 3AO-011, Item 32b. USAFE as a matter of mission urgency intends to prefinance the subject project to meet mission beddown requirements. A precautionary prefinancing statement will be submitted. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. BASE CIVIL ENGINEER: Maj Marvin Fisher,

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

AVIANO AB, ITALY

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE FLIGHTLINE WATER DISTRIBUTION SYSTEM	ASHE986001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 AUG 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	96 JAN 01
(e)	Date Design Complete	96 AUG 20
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	174
(b)	All Other Design Costs	226
(c)	Total	400
(d)	Contract	400
(e)	In-house	
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
OSAN AIR BASE, KOREA	PACIFIC AIR FORCES	1.10

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	553	4721	725				1084	4838	595	12,516
b. End FY 2001	518	4720	714				1084	4838	595	12,469

7. INVENTORY DATA ($000)

a. Total Acreage: (1,777)	
b. Inventory Total As Of: (30 SEP 95)	370,823
c. Authorization Not Yet In Inventory:	98,806
d. Authorization Requested In This Program:	9,780
e. Authorization Included In Following Program: (FY 1998)	9,800
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	489,209

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	DORMITORY	156 PN	9,780	AUG 95	AUG 96
		TOTAL:	9,780		

9a. Future Projects: Included in the Following Program (FY 1998)

721-312	CONSTRUCT ENLISTED DORMITORY	312 PN	9,800
		TOTAL:	9,800

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A numbered Air Force Headquarters. A fighter wing with F-16, NOA-10A, and C-12 aircraft. A special operations squadron with MH-53J aircraft. Major activities include an aerial port squadron, a reconnaissance squadron and an intelligence squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
OSAN AIR BASE, KOREA	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96P	721-312	SMYU963052	9,780

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (156 PN)	SM	5,730		7,633
DORMITORY FACILITY	SM	5,500	1,300	(7,150)
MECHANICAL & UTILITY BUILDING	SM	230	2,100	(483)
SUPPORTING FACILITIES				1,120
UTILITIES	LS			(285)
PAVEMENTS	LS			(35)
COMMUNICATIONS DUCTS	LS			(5)
SITE IMPROVEMENTS/LANDSCAPING	LS			(205)
DEMOLITION WORK/ENVIRONMENTAL REMED	LS			(390)
SPECIAL FOUNDATIONS	LS			(200)
SUBTOTAL				8,753
CONTINGENCY (5%)				438
TOTAL CONTRACT COST				9,191
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				597
TOTAL REQUEST				9,788
TOTAL REQUEST (ROUNDED)				9,780

10. Description of Proposed Construction: A four story building to consist of reinforced concrete foundation and floor slabs, masonry walls and roof. Project scope is 1+1 room modules, laundries, communications, fire protection/detection systems, utilities/HVAC, and necessary supporting facilities.
Air Conditioning: 700 KW. Grade Mix: 156 E1-E4.
Maximum Utilization: 156 Personnel

11. REQUIREMENT: 4,486 PN ADEQUATE: 3,586 PN SUBSTANDARD: 98 PN
PROJECT: Construct unaccompanied enlisted personnel dormitory. (Current Mission)
REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed, adequately configured, and furnished quarters are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: Presently Osan has a deficit of living quarters for unaccompanied enlisted personnel. Staff Sergeants are being doubled-up contrary to Air Force Instruction 32-6005 in order to house and retain the maximum number of personnel on-base and to alleviate hardships resulting from off-base housing. Lack of adequate living quarters for enlisted personnel result in degradation of productivity and career satisfaction for these enlisted personnel stationed far away from their home and their families. Off-base quarters are inadequate with substandard utilities, non-potable water and a dangerous heating system. There are no other projects underway in the local community to improve any of these living conditions. The 51 FW goal is to provide housing for all unaccompanied personel on-base.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

OSAN AIR BASE, KOREA

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	SMYU963052

IMPACT IF NOT PROVIDED: The need for this project cannot be overemphasized. Our personnel's productivity and even career consideration are interwoven with the living standards/conditions provided by the Air Force. Adequate living quarters for our unaccompanied personnel must be given the highest possible priority, especially for overseas locations such as Osan, where satisfactory and adequate quarters are not available in the local community at any price.
ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, leasing and status quo. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
OSAN AIR BASE, KOREA	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	SMYU963052

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 DEC 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	1%
(d)	Date 35% Designed.	96 JUL 15
(e)	Date Design Complete	96 DEC 15
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	585
(b)	All Other Design Costs	297
(c)	Total	882
(d)	Contract	700
(e)	In-house	182
(4)	Construction Start	97 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
CLASSIFIED LOCATIONS (INSIDE AND OUTSIDE THE UNITED STATES)		0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 95										
b. End FY 2001										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 95)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	18,395
e. Authorization Included In Following Program: (FY 1998)	7,100
f. Planned In Next Three Program Years:	5,580
g. Remaining Deficiency:	0
h. Grand Total:	31,075

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
100-000	SPECIAL TACTICAL UNIT DETACHMENT FACILITY	LS	3,680		
422-264	MUNITIONS STORAGE IGLOOS	5,000 SM	6,735	AUG 95	SEP 96
442-758	WAR READINESS MATERIAL WAREHOUSE	1,400 SM	2,215	AUG 95	SEP 96
442-758	WAR READINESS MATERIAL WAREHOUSES	9,500 SM	5,765	AUG 95	SEP 96
		TOTAL:	18,395		

9a. Future Projects: Included in the Following Program (FY 1998)

422-264	MUNITIONS STORAGE IGLOOS (25)	5,100 SM	7,100
		TOTAL:	7,100

9b. Future Projects: Typical Planned Next Three Years:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CLASSIFIED LOCATION	MUNITIONS STORAGE IGLOOS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.80.31	422-264	HACC963024	6,735

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MUNITIONS STORAGE IGLOOS	SM	5,000	840	4,200
SUPPORTING FACILITIES				1,805
UTILITIES	LS			(230)
PAVEMENTS	LS			(415)
SITE IMPROVEMENTS	LS			(1,160)
SUBTOTAL				6,005
CONTINGENCY (5%)				300
TOTAL CONTRACT COST				6,305
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				410
TOTAL REQUEST				6,715
TOTAL REQUEST (ROUNDED)				6,735

10. Description of Proposed Construction: Bermed modular reinforced concrete munitions igloos. Includes security fencing, access roads, utilities, site improvements and all necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct munitions storage igloos. (New Mission)

REQUIREMENT: Munitions storage facilities are required for the secure storage of prepositioned munitions. These assets must be ready for use by US Central Command (CENTCOM) forces and are required to support OPPLAN 1002-95.

CURRENT SITUATION: Other facilities in the host country are unavailable for War Readiness Material (WRM) munitions storage requirements. WRM assets moved into the region during Operations Desert Shield/Storm must either be stored in country or returned to CONUS. CONUS storage and round trip transportation exceeds storage cost in the host country. Munitions, prepositioned in country, are required to meet war fighting demands for the initial days of any conflict.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available for storage of munitions required to support US Central Command (CENTCOM) contingency planning in support of OPPLAN 1002-95 in the Persian Gulf area. Mission failure will result if sufficient munitions are not prepositioned in country to meet all requirements to prosecute any conflict. Adequate facilities will not be available for storage of munitions.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". This project does not qualify for

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CLASSIFIED LOCATION

4. PROJECT TITLE	5. PROJECT NUMBER
MUNITIONS STORAGE IGLOOS	HACC963024

Host Nation construction funding. A preliminary analysis of reasonable options for accomplishing this project (status quo, new construction, leasing) was done, and new construction emerged as the only option that can meet mission requirements. As a result, a full economic analysis was not performed.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CLASSIFIED LOCATION

4. PROJECT TITLE	5. PROJECT NUMBER
MUNITIONS STORAGE IGLOOS	HACC963024

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 AUG 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	96 JAN 01
(e)	Date Design Complete	96 SEP 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	400
(b)	All Other Design Costs	200
(c)	Total	600
(d)	Contract	
(e)	In-house	600
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CLASSIFIED LOCATION	SPECIAL TACTICAL UNIT DETACHMENT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.72.48	100-000	PAYZ974448	3,680

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SPECIAL TACTICAL UNIT DETACHMENT FACILITY	LS			3,680
SUBTOTAL				3,680
TOTAL CONTRACT COST				3,680
TOTAL REQUEST				3,680
TOTAL REQUEST (ROUNDED)				3,680

10. Description of Proposed Construction: Construct a Special Tactical Unit Detachment Facility.

11. REQUIREMENT: As required.
REQUIREMENT: Special Access Required.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CLASSIFIED LOCATION	WAR READINESS MATERIAL WAREHOUSES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.80.31	442-758	HACC973023	5,765

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
WAR READINESS MATERIALS WAREHOUSES	SM	9,500	480	4,560
SUPPORTING FACILITIES				600
UTILITIES	LS			(200)
PAVEMENTS	LS			(200)
SITE IMPROVEMENTS	LS			(200)
SUBTOTAL				5,160
CONTINGENCY (5%)				258
TOTAL CONTRACT COST				5,418
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				352
TOTAL REQUEST				5,770
TOTAL REQUEST (ROUNDED)				5,765

10. Description of Proposed Construction: Construct two pre-engineered buildings on concrete foundations with lighting and ventilation. Includes pavements, utilities, site improvements and all necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct War Readiness Material (WRM) warehouses. (New Mission)

REQUIREMENT: Facilities in the host country are unavailable for adequate WRM storage requirements. Covered storage facilities are required for prepositioning and long-term storage of high-value WRM assets. These assets must be ready for use by US Central Command (CENTCOM) forces in support of current operational plans.

CURRENT SITUATION: There are no facilities available in the host country for adequate WRM storage. WRM assets moved into the region during Operations Desert Shield/Desert Storm are deteriorating at accelerated rates due to their exposure to extremes of temperature, sand, and wind. These materials must either be stored in country or returned to CONUS. CONUS storage and round-trip transportation exceeds storage cost in host country. Hundreds of C-5 and C-141 sorties are required to move these materials one way. This airlift does not meet the readiness requirements or provide operational flexibility.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available for storage of assets required to support CENTCOM contingency planning in support of OPPLAN 1002-95 in the Persian Gulf area. Without adequate storage facilities, increased transportation demands will greatly impede the capability to successfully execute contingency plans and protect national interests.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide." However,

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CLASSIFIED LOCATION

4. PROJECT TITLE	5. PROJECT NUMBER
WAR READINESS MATERIAL WAREHOUSES	HACC973023

this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements." This project does not qualify for Host Nation construction funding. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction, leasing) was done. New construction is the only option that can meet mission requirements. As a result, a full economic analysis was not performed.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CLASSIFIED LOCATION

4. PROJECT TITLE	5. PROJECT NUMBER
WAR READINESS MATERIAL WAREHOUSES	HACC973023

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	95 AUG 01
(b)	Parametric Cost Estimates used to develop costs	Y
(c)	Percent Complete as of Jan 1996	35%
(d)	Date 35% Designed.	95 DEC 30
(e)	Date Design Complete	96 SEP 30
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	345
(b)	All Other Design Costs	180
(c)	Total	525
(d)	Contract	
(e)	In-house	525
(4)	Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CLASSIFIED LOCATIONS	WAR READINESS MATERIAL WAREHOUSE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.80.31	442-758	HACC973024	2,215

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
WAR READINESS MATERIAL WAREHOUSE	SM	1,400	1,300	1,820
SUPPORTING FACILITIES				165
UTILITIES	LS			(75)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(40)
SUBTOTAL				1,985
CONTINGENCY (5%)				99
TOTAL CONTRACT COST				2,084
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				135
TOTAL REQUEST				2,219
TOTAL REQUEST (ROUNDED)				2,215

10. Description of Proposed Construction: Construct a pre-engineered building with environmental control systems, restrooms, administrative and shop spaces. Includes utilities, pavements, site improvements and all necessary support.
Air Conditioning: 50 KW.

11. REQUIREMENT: As required.
PROJECT: Construct a War Readiness Material (WRM) warehouse. (New Mission)
REQUIREMENT: Storage facilities for rations are required to meet HQ Air Force directives and to support OPPLAN 1002-95 for prepositioning WRM food assets which must be kept in a secure, temperature and humidity controlled environment. These assets must be ready for immediate use by US Central Command (USCENTCOM) Forces in contingency operations.
CURRENT SITUATION: There are no facilities available in the host country to adequately store prepositioned WRM food assets which are required to support OPLAN 1002-95. The WRM food assets currently being stored are valued at $22 million, and are deteriorating at a cost of $3.3 million per year under inadequate outside storage conditions. The local weather conditions are causing accelerated deterioration of assets which must be continually replaced in order to be ready for use.
IMPACT IF NOT PROVIDED: Adequate food reserves cannot be adequately prepositioned in support of USCENTCOM contingency operations in the Persian Gulf area. By not having adequate food storage facilities, USCENTCOM operational plans will be degraded by relying on resources that may not be usable. Without adequate storage facilities, increased transportation requirements will be necessary to supply usable food assets

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
CLASSIFIED LOCATIONS	
4. PROJECT TITLE	5. PROJECT NUMBER
WAR READINESS MATERIAL WAREHOUSE	HACC973024

from CONUS, which will impede US capability in executing contingency plans and protecting national interests.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". This project does not qualify for host nation funding. A preliminary analysis of reasonable options for accomplishing this project (status quo, new construction) was done. It indicates that new construction is the only option that will meet mission requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

CLASSIFIED LOCATIONS

4. PROJECT TITLE	5. PROJECT NUMBER
WAR READINESS MATERIAL WAREHOUSE	HACC973024

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 AUG 01
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	96 JAN 01
(e) Date Design Complete	96 SEP 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	130
(b) All Other Design Costs	60
(c) Total	190
(d) Contract	
(e) In-house	190
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
INCIRLIK AIR BASE, TURKEY	UNITED STATES AIR FORCES IN EUROPE	0.96

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	218	1873	320				290	1266	240	4,207
b. End FY 2001	212	1875	325				314	1420	240	4,386

7. INVENTORY DATA ($000)

a. Total Acreage: (3,328)	
b. Inventory Total As Of: (30 SEP 95)	193,988
c. Authorization Not Yet In Inventory:	2,400
d. Authorization Requested In This Program:	7,160
e. Authorization Included In Following Program: (FY 1998)	7,800
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	211,348

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-453	BASE OPERATIONS AND CONTROL TOWER COMPLEX	2,050 SM	3,680	JUL 95	SEP 96
721-315	ADD TO AND ALTER TRANSIENT DORMITORY	68 PN	1,740	OCT 94	JUN 96
740-674	ADD TO AND ALTER PHYSICAL FITNESS CENTER	1,500 SM	1,740	JUL 95	AUG 96
		TOTAL:	7,160		

9a. Future Projects: Included in the Following Program (FY 1998)

721-312	DORMITORY	3,218 SM	3,250
730-833	SECURITY POLICE CENTRAL CONTROL FACILITY	1,580 SM	3,050
740-873	BASE THEATER	1,022 SM	1,500
		TOTAL:	7,800

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: The host wing has no permanently assignedforce structure but is responsible for regional logistics in Turkey and command and control of deployed forces. As a combined US/Turkish common defense facility, Incirlik AB supports a composite wing (provisional) with various types of aircraft and multinational forces engaged in OPERATION PROVIDE COMFORT.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	2,100
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
INCIRLIK AIR BASE, TURKEY	BASE OPERATIONS AND CONTROL TOWER COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	141-453	LJYC869009	3,680

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE OPERATIONS AND CONTROL TOWER COMPLEX	SM	2,050	1,400	2,870
SUPPORTING FACILITIES				420
UTILITIES	LS			(160)
PAVEMENTS	LS			(90)
SITE IMPROVEMENTS	LS			(50)
COMMUNICATIONS SUPPORT	LS			(90)
DEMOLITION	SM	750	40	(30)
SUBTOTAL				3,290
CONTINGENCY (5%)				165
TOTAL CONTRACT COST				3,455
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				225
TOTAL REQUEST				3,680
TOTAL REQUEST (ROUNDED)				3,680

FCF BUDGET RATE USED:
NA CONTRACTS ARE IN US DOLLARS

10. Description of Proposed Construction: Reinforced concrete foundation, structural frame, floor slab, masonry walls, pitched roof, fire protection, elevator, TEMPEST security, uninterruptable power source, communications support, and all utilities and necessary support. Facility includes control tower, base flight operations, and other related support areas. Existing tower will be demolished.

11. REQUIREMENT: 2,050 SM ADEQUATE: 0 SUBSTANDARD: 1,704 SM
PROJECT: Construct a base operations and control tower complex. (Current Mission).
REQUIREMENT: This is a Level 1 Commander's Facility Assessment requirement. Construct a facility which consolidates all of the base operations functions, control tower functions, radar approach control (RAPCON), ground control approach (GCA), weather functions and group headquarters. Adequate, collocated space is required for these functions to effectively manage air traffic control directly supporting the air combat, operations, and training in the southern flank of NATO. The control tower cab must accommodate 10 to 12 air traffic controllers, an interpreter, and associated air traffic control equipment.
CURRENT SITUATION: The existing 1955 air traffic control tower and GCA/RAPCON facilities were designed and built to accommodate single nation operations and limited equipment. Since then, both the mission of the base and the characteristics of the aircraft supported have changed. As a result, more air traffic controllers and more equipment are needed to cover present day air operations. Additionally, these facilities are not sized or configured to support the current operations. The increased number of personnel and equipment working in the tower cab and GCA/RAPCON support facilities have created a crowded and potentially hazardous

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
INCIRLIK AIR BASE, TURKEY	
4. PROJECT TITLE	5. PROJECT NUMBER
BASE OPERATIONS AND CONTROL TOWER COMPLEX	LJYC869009

working environment. Additionally, required support areas for training, administration and management are grossly undersized. Also, the tower cab is approximately 6.5 meters shorter than required to provide sufficient view of the aerodrome. The structural, mechanical, and electrical components of the tower and GCA/RAPCON facilities are deteriorated beyond minor repairs. The base operations and operations group administration are located in two separate 1955 vintage facilities. One facility is a substandard Quonset hut and the other has deteriorated beyond economical renovation or repair. All of the utility systems in both facilities are inadequate. Again, the facilities are not sized to accommodate joint operations or mission changes. To alleviate space shortage hallways are used to store maps and files and work areas are shared by dual nation personnel. This makes command and control difficult and could lead to security compromises. The existing tower and operations facilities (750 sm) will be demolished and GCA/RAPCON facilities will be returned to the host nation.

IMPACT IF NOT PROVIDED: The base will continue using a substandard outdated control tower, GCA/RAPCON, base operations, weather, and headquarters group facilities. Overcrowded conditions in the tower cab will remain a serious problem that limits air traffic controller mobility, prevents functional and efficient operational procedures, and degrades controller communications with pilots. The height of the tower will continue to limit visibility of the areodrome decreasing the controllers ability to safely manage multiple aircraft. The overcrowded conditions in the other operational complex facilities will continue to limit command and control, minimize productivity, and jeopardize security.

ADDITIONAL: This project is approximately 10% NATO eligible. A NATO project to cover NATO eligible expense has been submitted to NATO. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Handbook 32-1084, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

INCIRLIK AIR BASE, TURKEY

4. PROJECT TITLE	5. PROJECT NUMBER
BASE OPERATIONS AND CONTROL TOWER COMPLEX	LJYC869009

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 JUL 01
(b) Parametric Cost Estimates used to develop costs	N
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	95 DEC 30
(e) Date Design Complete	96 SEP 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	220
(b) All Other Design Costs	160
(c) Total	380
(d) Contract	380
(e) In-house	
(4) Construction Start	97 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
INCIRLIK AIR BASE, TURKEY	ADD TO AND ALTER TRANSIENT DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	721-315	LJYC963002	1,740

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADAL DORMITORY (68 PN)	SM	2,625		1,321
ADDITION	SM	275	360	(99)
ALTERATION	SM	2,350	520	(1,222)
SUPPORTING FACILITIES				170
UTILITIES	LS			(100)
PAVEMENTS	LS			(40)
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				1,491
CONTINGENCY (10%)				149
TOTAL CONTRACT COST				1,640
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				107
TOTAL REQUEST				1,747
TOTAL REQUEST (ROUNDED)				1,740

FCF BUDGET RATE USED:
NA CONTRACTS ARE IN US DOLLARS

10. Description of Proposed Construction: Alter two-story transient dormitory. Includes construction of balconies and conversion from interior to exterior entrances, upgrades mechanical and electrical systems, interior and exterior finishes, bathroom fixtures, shared kitchens, fire protection, laundry rooms, asbestos abatement, site improvements, and all necessary support.
Air Conditioning: 80 KW. Grade Mix: 68 E1-E4.
Maximum Utilization: 68 Personnel

11. REQUIREMENT: 1,663 PN ADEQUATE: 600 PN SUBSTANDARD: 319 PN
PROJECT: Add to and alter transient dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. It is a major Air Force objective is to provide transient enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs which these people must perform. Incirlik AFB is the primary aerial port for all of Turkey which results in an extensive transient billeting load.
CURRENT SITUATION: The facility to be upgraded was constructed in 1957 and has had no major repairs in over 30 years. The facility does not meet the current building code requirements. The building currently occupied by personnel deployed in support of Operation Provide Comfort. The high number of TDY personnel that have occupied this facility have accelerated degradation on this already worn facility. This facility currently has a flat roof, central corridors and central, gang-type latrines. Plumbing and fixtures have never been replaced and are rusted, cracked and very

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

INCIRLIK AIR BASE, TURKEY

4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER TRANSIENT DORMITORY	LJYC963002

unsightly. The lighting and electrical wiring is unsafe, inadequate and in disrepair. The dimly lit corridors and general building deterioration are not congruent with the highly important mission at Incirlik. Visiting personnel who are providing essential services or who require hub support at Incirlik are required to live in these quarters, which are far below acceptable standards, or in costly contract quarters which are ten (10) miles away from the base. Transportation to and from the base is extremely hazardous. The local "rules of the road" consist of four lane traffic on roads designed for two lanes, donkey and horse drawn carts, and degraded pavement surfaces. Massive transportation poses a security threat. A military vehicle was blocked and fired upon by terrorist while transporting personnel from an off base hotel to the base.

IMPACT IF NOT PROVIDED: Substandard living conditions will persist for transient and visiting personnel and morale, productivity, and career satisfaction of the enlisted force will continue to be degraded. The building will require increased maintenance and will continue to fail to meet DoD standards and building code requirements.

ADDITIONAL: This project is not NATO eligible. The fire protection system for this project meets new standards established in MIL-HNBK 1008B, Fire Protection for Facilities, published 15 January 1994.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

INCIRLIK AIR BASE, TURKEY

4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER TRANSIENT DORMITORY	LJYC963002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	94 OCT 15
(b) Parametric Cost Estimates used to develop costs	N
(c) Percent Complete as of Jan 1996	60%
(d) Date 35% Designed.	95 JUN 15
(e) Date Design Complete	96 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	104
(b) All Other Design Costs	58
(c) Total	162
(d) Contract	
(e) In-house	162
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
INCIRLIK AIR BASE, TURKEY	ADD TO AND ALTER PHYSICAL FITNESS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	740-674	LJYC963003	1,740

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER PHYSICAL FITNESS CENTER	SM	1,500		1,422
ADDITION	SM	1,200	1,100	(1,320)
ALTERATION	SM	300	340	(102)
SUPPORTING FACILITIES				145
UTILITIES	LS			(70)
PAVEMENTS	LS			(30)
SITE IMPROVEMENTS	LS			(20)
DEMOLITION	SM	1,700	15	(25)
SUBTOTAL				1,567
CONTINGENCY (5%)				78
TOTAL CONTRACT COST				1,645
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				107
TOTAL REQUEST				1,752
TOTAL REQUEST (ROUNDED)				1,740

FCF BUDGET RATE USED:
NA CONTRACTS ARE IN US DOLLARS

10. Description of Proposed Construction: Reinforced concrete foundation, walls, beams, and columns. Renovate existing women's locker room and construct new men's locker room. Functional areas include: equipment, general purpose, laundry, weight/nautilus, storage, aerobic, and administration areas. Construct six racquetball courts. Install HVAC, fire protection and all utilities. Demolish existing buildings. Air Conditioning: 45 KW.

11. REQUIREMENT: 2,610 SM ADEQUATE: 1,110 SM SUBSTANDARD: 1,700 SM
PROJECT: Add to and alter physical fitness center. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. Adequate facilities are required to support the physical conditioning and training of personnel assigned and deployed to Incirlik Air Base.
CURRENT SITUATION: The present physical fitness center consists of three facilities; one adequate and two totally substandard. The substandard facilities are structurally unsound. There have been as many as four additions to these facilities and due to the highly expansive soil at Incirlik Air Base, differential settlement has occured. Support columns are currently held together with metal bands because of settlement and separation problems. The situation is continuing to worsen and will eventually make the facility completely unusable. HVAC systems are inadequate for personnel to train in this hot and humid environment. Floors are inadequate to support the required strength conditioning equipment. Additionally, separated facilities require higher operation and maintenance costs. These facilities are beyond economical repair. The demolition of two buildings totalling 1700 SM will occur upon

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

INCIRLIK AIR BASE, TURKEY

4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER PHYSICAL FITNESS CENTER	LJYC963003

completion of this project.
IMPACT IF NOT PROVIDED: The existing susbstandard structures will continue to deteriorate to the point of becoming unsafe and unusable. The existing adequate facility will become overcrowded and not allow for the proper training and conditioning of military personnel at Incirlik Air Base. This is an isolated assignment with no opportunity for off-base physical fitness activities.
ADDITIONAL: This project is not eligible for NATO funding. A precautionary prefinancing statement will be submitted in the event the project becomes eligible in the future. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

INCIRLIK AIR BASE, TURKEY

4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER PHYSICAL FITNESS CENTER	LJYC963003

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 JUL 16
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	95 OCT 15
(e) Date Design Complete	96 AUG 10
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	104
(b) All Other Design Costs	58
(c) Total	162
(d) Contract	162
(e) In-house	
(4) Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
ROYAL AIR FORCE CROUGHTON, UNITED KINGDOM	UNITED STATES AIR FORCES IN EUROPE	1.33

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	18	359	43						1	421
b. End FY 2001	18	356	42						1	417

7. INVENTORY DATA ($000)

a. Total Acreage: (694)	
b. Inventory Total As Of: (30 SEP 95)	28,894
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	1,740
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	30,634

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
130-142	FIRE STATION	850 SM	1,740	TURN KEY	
		TOTAL:	1,740		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Communications site.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROYAL AIR FORCE CROUGHTON, UNITED KINGDOM	FIRE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	130-142	EXSW963010	1,740

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE STATION	SM	850	1,800	1,530
SUPPORTING FACILITIES				120
UTILITIES	LS			(30)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(5)
DEMOLITION	SM	350	100	(35)
SUBTOTAL				1,650
CONTINGENCY (5%)				83
TOTAL CONTRACT COST				1,733
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				43
TOTAL REQUEST				1,776
TOTAL REQUEST (ROUNDED)				1,740

FCF BUDGET RATE USED: POUND 0.64

10. Description of Proposed Construction: Steel framed with brick walls, concrete foundations and floor slab and a pitched roof. The facility will incorporate stall space for four fire response vehicles, all necessary support space including sleeping quarters, gas fired heating, a sprinkler system, exhaust ventilation, access and parking pavements, all necessary utility connections and demolition of existing facility.

11. REQUIREMENT: 850 SM ADEQUATE: 0 SUBSTANDARD: 350 SM

PROJECT: Construct a fire station. (Current Mission)

REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A properly sized and configured fire station is required to provide fire protection for base facilities. The station must provide space to house fire fighting equipment and crews, a central fire alarm system, command and control, 24-hour crew quarters, exercise room, storage for operations supplies and chemical agents, and maintenance functions. The closure of RAF Upper Heyford (RAF Croughton's former support installation--eight miles to the south) resulted in an increase of the fire protection mission at RAF Croughton. RAF Croughton must now be self sufficient for its fire protection needs. The existing facility is totally unsuitable due to its limited size and site constraints.

CURRENT SITUATION: The existing fire station is a 53 year old World War II temporary facility, is in a poor state of repair, and has operated as a secondary station. Fire fighting capabilities are limited and were supplemented during serious emergencies by additional apparatus located at RAF Upper Heyford. RAF Croughton is located in a rural area which relies upon a volunteer fire fighting capability. This service does not meet the response time requirements nor the fire fighting capability. Closure of RAF Upper Heyford in September 1994 has eliminated any USAF reinforcement

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
ROYAL AIR FORCE CROUGHTON, UNITED KINGDOM	
4. PROJECT TITLE	5. PROJECT NUMBER
FIRE STATION	EXSW963010

capability and results in a serious shortfall in fire protection for a number of critical communications activities. These activities include: (1) the only European automatic weather switch system supporting the Air Force Global Weather System; (2) a Giant Talk station which directly supports the theater wide airborne command, control, reconnaissance and special mission activities operated by ACC; (3) a Mystic Star installation which provides communications capability directly between presidential and other high level staff from all areas in Europe; (4) the Global Command and Control System providing communications between ground activities and all DoD aircraft; (5) a Communications Support Activity installation which provides worldwide communications support for State Department and presidential staff; (6) a weather intercept facility that obtains environmental data; and (7) the Autodin switching capability for Northern Europe. The existing fire station is less than half the required size and unsuitable for alteration. The P24 vehicles are too large to fit into the vehicle stalls. Upon completion of this project, this 350 SM facility will be demolished.

IMPACT IF NOT PROVIDED: Failure to provide this facility will seriously affect the successful accomplishment of fire protection activities at RAF Croughton and could result in the failure of many communications capabilities critical to the DoD mission in the European theater. The limited fire fighting capability also raises the potential for the loss of life, equipment and real property.

ADDITIONAL: This project is not eligible for NATO funding. The project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". A preliminary analysis of reasonable options (status quo, add to and alteration, new construction, leasing) was done. It indicates that constructing a new fire station is the only option that will meet operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROYAL AIR FORCE CROUGHTON, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
FIRE STATION	EXSW963010

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:

(a) Standard or Definitive Design - NO

(b) Where Design Was Most Recently Used - N/A

(3) Design Allowance 90

(4) Construction Start 96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM	UNITED STATES AIR FORCES IN EUROPE	1.33

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	518	4027	254				2	8	321	5,130
b. End FY 2001	520	4008	253				2	5	315	5,103

7. INVENTORY DATA ($000)

a. Total Acreage: (2,340)	
b. Inventory Total As Of: (30 SEP 95)	168,865
c. Authorization Not Yet In Inventory:	3,600
d. Authorization Requested In This Program:	17,525
e. Authorization Included In Following Program: (FY 1998)	19,000
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	208,990

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-157	F-15E ADD TO JET ENGINE SHOP	1,500 SM	2,700	APR 95	FEB 96
215-552	F-15E ADD TO AND ALTER WEAPONS RELEASE FACILITY	1,525 SM	2,615	APR 93	FEB 96
721-312	DORMITORY	72 PN	4,260	MAR 94	AUG 96
721-312	DORMITORY	96 PN	7,950	DEC 95	AUG 96
		TOTAL:	17,525		

9a. Future Projects: Included in the Following Program (FY 1998)

121-111	CONSTRUCT BASE FUELS COMPLEX	8,000 SF	1,500
610-128	CONSOLIDATED COMPTROLLER, ADC, SATO, AND TMO FACILITY	1,581 SM	4,350
721-312	DORMITORY	3,150 SM	8,200
721-312	DORMITORY	1,850 SM	4,950
		TOTAL:	19,000

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: The host fighter wing supports two dual-capable F-15E squadrons and one F-15C/D air superiority squadron. The wingalso supports an Air Force regional hospital.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	2,500
c. Occupational safety and health:	900
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	721-312	MSET973000	7,950

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (96PN)				5,670
DORMITORY	SM	3,150	1,800	(5,670)
SUPPORTING FACILITIES				1,725
UTILITIES	LS			(605)
PAVEMENTS	LS			(475)
SITE IMPROVEMENTS	LS			(545)
FIRE PROTECTION SYSTEMS	LS			(100)
SUBTOTAL				7,395
CONTINGENCY (5%)				370
TOTAL CONTRACT COST				7,765
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				194
TOTAL REQUEST				7,959
TOTAL REQUEST (ROUNDED)				7,950

FCF BUDGET RATE USED: POUND 0.64

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls and pitched roof. Includes room-bath/kitchen-room modules, laundry, storage and lounge and all supporting facilities. Construction to include indoor and outdoor recreation/community areas and indoor service area. Project to include fire protection systems, utilities, necessary site support.
Grade Mix: 96 E1-E4.
Maximum Utilization: 96 Personnel

11. REQUIREMENT: 1,388 PN ADEQUATE: 317 PN SUBSTANDARD: 617 PN
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level 1 Commander's Facility Assessment requirement. A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: Most dormitory space on RAF Lakenheath fails to meet minimum USAF standards. The dormitories have central gang latrines, insufficient laundry rooms, recreational and storage space. The infrastructue of these dormitories consist of inadequate heat controls, insufficient insulation and inferior noise attenuation. Maintenance and repair costs for these facilities are disproportionately large compared to modern facilities. Heating costs for these facilities are exorbitant due to individual heating controls. Occupants regulate heating and ventilationby opening and closing windows throughout the seasons. Since the runway is only 1,800 feet from the existing dormitory, and the flight

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	MSET973000

path is even closer, dormitory occupants are distressed by the high noise levels. Normal conversation and sleep patterns are impossible with open windows (a necessity in the summer as there is no air conditioning). The unaccompanied enlisted personnel of RAF Lakenheath have only two options: to live in substandard dormitories or in expensive off-base quarters.
IMPACT IF NOT PROVIDED: RAF Lakenheath will continue to fail to meet minimum OSD standards for dormitory living. The dormitories will require a disproportionate amount of maintenance and repair funds to ensure the infrastructure remains operative. Heating costs will be excessive, due to inadequate heating controls and insulation. Noise pollution will continue to cause occupants great distress during night flying exercises. Adequate living quarters will continue to be unavailable resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel.
ADDITIONAL: This project is not eligible for NATO funding. This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Fire protection systems for this project meet new standards established in MIL-HDBK 1008B, Fire Protection for Facilities.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	MSET973000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 DEC 01
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	1%
(d) Date 35% Designed.	96 JUL 01
(e) Date Design Complete	96 DEC 20
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	456
(b) All Other Design Costs	456
(c) Total	912
(d) Contract	912
(e) In-house	
(4) Construction Start	97 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM	F-15E ADD TO AND ALTER WEAPONS RELEASE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.71.34U	215-552	MSET943012	2,615

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-15E ADD TO AND ALTER WEAPONS RELEASE FACILITY	SM	1,525		2,118
ADDITION	SM	1,100	1,500	(1,650)
ALTERATION	SM	425	1,100	(468)
SUPPORTING FACILITIES				315
UTILITIES	LS			(105)
SITE IMPROVEMENTS	LS			(75)
PAVEMENTS	LS			(40)
FIRE PROTECTION SYSTEMS	LS			(70)
DEMOLITION	SM	550	45	(25)
SUBTOTAL				2,433
CONTINGENCY (5%)				122
TOTAL CONTRACT COST				2,555
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				64
TOTAL REQUEST				2,619
TOTAL REQUEST (ROUNDED)				2,615

FCF BUDGET RATE USED: POUND 0.64

10. Description of Proposed Construction: Construct concrete slabs, foundation, walls and structural roof system consistent with existing facility. Include compressed air at work stations, electrical bay doors, fire detection and suppression system, overhead hoists, security hasps, environmental systems, and all utilities and necessary support. Upgrade heating, electrical and lighting systems. Demolish interim facility.

11. REQUIREMENT: 1,525 SM ADEQUATE: 0 SUBSTANDARD: 987 SM
PROJECT: Add to and alter F-15E weapons release facility. (New Mission)
REQUIREMENT: A multiple bay facility is needed to support assembly, inspection, maintenance and repair of weapons release and gun systems; alternate mission equipment (AME); and the universal ammunition loading system (UALS). DoD and USAF regulations require physical separation between areas where different munitions systems are serviced. Due to the beddown of F-15E aircraft from Bitburg AB, the existing facility cannot meet the demands for additional weapons systems maintenance.
CURRENT SITUATION: The existing single bay facility is too small to allow for the safe maintenance, repair, and storage of critical F-15E weapons release systems. This facility was sufficient for the F-111s it was originally built to support, as the F-111 only deploys with one weapon system. However, the F-15E aircraft has multiple weapons systems. With only one bay, maintenance personnel cannot safely service the various weapons release and gun systems incorporated on the F-15E, unless each is done one system at a time. In the likely event of a jammed or malfunctioning system the entire bay would have to be cleared of all personnel except those necessary to make the repair, interrupting all other activities until the system is cleared. The F-15E also receives periodic routine maintenance that requires the removal of over 60 pieces

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM	
4. PROJECT TITLE	5. PROJECT NUMBER
F-15E ADD TO AND ALTER WEAPONS RELEASE FACILITY	MSET943012

of equipment from the aircraft. Since there is no storage space, these pieces must be stored outside on pallets before and after maintenance, exposing them to the elements, accelerating deterioration, and jeapordizing reliabilty. Spare parts are stored in facilities remote from the maintenance area creating lag time and adding transportation costs. Upon completion of this project two substandard facilities at a total of 550 SM will be demolished.

IMPACT IF NOT PROVIDED: During a contingency several different types of weapons release systems will have to be maintained in the same bay. This violates safety standards and will result in unsafe operations. Maintenance required to support training missions will be delayed, doubling the time for normal scheduled maintenance. The current facility layout makes it very difficult to perform any unscheduled maintenance. These maintenance time increases will decrease the sortie generation rates. Maintenance costs will increase due to increased costs for handling, transportation, and time lost to retrieve parts stored in geographically separated locations.

ADDITIONAL: This project is not eligible for NATO funding. A precautionary prefinancing statement will be issued to NATO for possible recoupment of US funds, if the project becomes eligible in the future. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
F-15E ADD TO AND ALTER WEAPONS RELEASE FACILITY	MSET943012

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:		
(a)	Date Design Started	93 APR 27
(b)	Parametric Cost Estimates used to develop costs	N
(c)	Percent Complete as of Jan 1996	60%
(d)	Date 35% Designed.	93 OCT 15
(e)	Date Design Complete	96 FEB 01
(2) Basis:		
(a)	Standard or Definitive Design -	NO
(b)	Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		($000)
(a)	Production of Plans and Specifications	115
(b)	All Other Design Costs	
(c)	Total	115
(d)	Contract	115
(e)	In-house	
(4)	Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM	F-15E ADD TO JET ENGINE SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.71.34U	211-157	MSET933010	2,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-15E ADD TO JET ENGINE SHOP	SM	1,500	1,300	1,950
SUPPORTING FACILITIES				470
UTILITIES	LS			(145)
PAVEMENTS	LS			(100)
SITE IMPROVEMENTS	LS			(60)
FIRE PROTECTION SYSTEM	LS			(165)
SUBTOTAL				2,420
CONTINGENCY (5%)				121
TOTAL CONTRACT COST				2,541
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				165
TOTAL REQUEST				2,706
TOTAL REQUEST (ROUNDED)				2,700

FCF BUDGET RATE USED: POUND 0.64

10. Description of Proposed Construction: Construct steel frame, concrete floor, insulated metal siding, foundation, walls and roof system consistent with existing facility. Includes fire detection and suppression, hoist, tool support room, technical order library, bathrooms, locker room and administration. Includes all necessary utility systems, exterior paving, landscaping and site support.

11. REQUIREMENT: 4,311 SM ADEQUATE: 2,811 SM SUBSTANDARD: 0
PROJECT: Add to F-15E jet engine shop. (New Mission)
REQUIREMENT: A facility to support the inspection, maintenance, assembly of jet engines, module repair, and material control. Separate areas are needed for cleaning jet engine components after they have been dismantled; storing maintenance tools; storing engine parts and a technical manual library. A hoist and crane system is needed which can support the weight of several jet engines during phases of repair and assembly. The hoist must be capable of moving the engine and its components over the entire work area. Due to the beddown of 2 F-15 squadrons consisting of 48 aircraft from Bitburg AB, the existing facility cannot meet the demands for the additional space required to service jet engines.
CURRENT SITUATION: The existing facility was constructed during World War II to support aircraft with piston engines. This engine shop is not adequately sized to service the much more complex F-15E jet engine. The beddown of the F-15C, which has a different engine than the F-15E, has further exacerbated the shortfall of shop space. Specialized areas (cleaning areas, tool storage, and part storage) must be isolated from the work environment for accountability and control of the jet engine spare parts and tools. Each engine has separate tooling and maintenance equipment. There is no space for both engine types to be effectively

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM	
4. PROJECT TITLE	5. PROJECT NUMBER
F-15E ADD TO JET ENGINE SHOP	MSET933010

maintained at the same time. Several work-arounds have been employed to maximize the number of engines maintained. Tooling and equipment is stored offsite in aircraft shelters. This significantly increases the amount of time required to maintain an engine. Shop personnel are working extended shifts from 12 to 14 hours to compensate. To save room during engine maintenance, components are "doubled up" in a maintenance area, potentially creating a mix up of the engine component parts.

IMPACT IF NOT PROVIDED: The lack of additional space has already resulted in some aircraft not being "mission capable". This is due to the increased amount of time required for engine assembly, maintenance, and inspection created by the current work-arounds. The maintenance crews will continue to work extended shifts to maintain as many engines as possible. Equipment will continue to be stored at an offsite location. Accountability for engine component parts and tools will be at risk. This creates a hazardous work environment and negatively impacts morale. The potential for additional aircraft to be unavailable for missions will increase.

ADDITIONAL: This project is not eligible for NATO funding. A precautionary prefinancing statement will be issued to NATO for possible recoupment of U. S. funds, if the project becomes eligible in the future. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". BASE CIVIL ENGINEER: Maj Steve Zander, 011-44-1638-52-2100

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
F-15E ADD TO JET ENGINE SHOP	MSET933010

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	95 APR 01
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	65%
(d) Date 35% Designed.	95 AUG 15
(e) Date Design Complete	96 FEB 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	145
(b) All Other Design Costs	
(c) Total	145
(d) Contract	145
(e) In-house	
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	721-312	MSET933000	4,260

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (72 PN)	SM	2,350	1,400	3,290
SUPPORTING FACILITIES				675
UTILITIES	LS			(225)
PAVEMENTS	LS			(175)
SITE IMPROVEMENTS	LS			(130)
COMMUNICATIONS SUPPORT	LS			(145)
SUBTOTAL				3,965
CONTINGENCY (5%)				198
TOTAL CONTRACT COST				4,163
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				104
TOTAL REQUEST				4,267
TOTAL REQUEST (ROUNDED)				4,260

FCF BUDGET RATE USED: POUND 0.64

10. Description of Proposed Construction: Construct a two-story structure with reinforced concrete foundations and floor slabs, masonry walls, roof, fire protection, and site improvements. Includes room-bath-room modules, laundries, storage and lounge areas and all necessary support.
Grade Mix: 72 E1-E4.
Maximum Utilization: 72 Personnel

11. REQUIREMENT: 1,513 PN ADEQUATE: 358 PN SUBSTANDARD: 642 PN
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. It is a major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: There are currently not enough adequate dormitories to accommodate the unaccompanied enlisted personnel at this base. Existing facilities are 100 percent occupied. The majority of unaccompanied enlisted personnel assigned to RAF Lakenheath live in these substandard dormitories or are forced to live in expensive off-base quarters.
IMPACT IF NOT PROVIDED: Substandard living conditions will persist degrading morale, productivity, and career satisfaction for unaccompanied enlisted personnel.
ADDITIONAL: This project is not eligible for NATO funding. A precautionary prefinancing statement will be submitted in the event the project becomes eligible in the future. This project meets the

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	MSET933000

criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization of existing facilities, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Fire protection systems for this project meets new standards established in MIL-HNBK 1008B, "Fire Protection for Facilties".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	MSET933000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	94 MAR 15
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	35%
(d) Date 35% Designed.	96 JAN 15
(e) Date Design Complete	96 AUG 15
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	255
(b) All Other Design Costs	
(c) Total	255
(d) Contract	255
(e) In-house	
(4) Construction Start	97 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
ROYAL AIR FORCE MILDENHALL, UNITED KINGDOM	UNITED STATES AIR FORCES IN EUROPE	1.33

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	399	3453	218				13	22	3	4,108
b. End FY 2001	388	3440	225				14	27	3	4,097

7. INVENTORY DATA ($000)

a. Total Acreage: (1,149)	
b. Inventory Total As Of: (30 SEP 95)	115,040
c. Authorization Not Yet In Inventory:	4,800
d. Authorization Requested In This Program:	6,195
e. Authorization Included In Following Program: (FY 1998)	13,800
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	139,835

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	DORMITORY	124 PN	6,195	JUL 94	MAY 96
		TOTAL:	6,195		

9a. Future Projects: Included in the Following Program (FY 1998)

141-753	KC-135 OPERATIONS GROUP COMPLEX	6,637 SM	13,800
		TOTAL:	13,800

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: The host air refueling wing supports a KC-135 squadron, the European Tanker Task Force (KC-135), and a regional support group. RAF Mildenhall also hosts Headquarters Third Air Force and supports a Special Operations Group (SOG--MC/HC-130 and MH-53 aircraft).

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	1,300
c. Occupational safety and health:	0
d. Other Environmental:	0

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROYAL AIR FORCE MILDENHALL, UNITED KINGDOM	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	721-312	QFQE923000	6,195

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (124 PN)	SM	4,100	1,300	5,330
SUPPORTING FACILITIES				430
OTILITIES	LS			(95)
PAVEMENTS	LS			(90)
SITE IMPROVEMENTS	LS			(85)
COMMUNICATIONS SUPPORT	LS			(50)
DEMOLITION	SM	1,850	59	(110)
SUBTOTAL				5,760
CONTINGENCY (5%)				288
TOTAL CONTRACT COST				6,048
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				151
TOTAL REQUEST				6,199
TOTAL REQUEST (ROUNDED)				6,195

FCF BUDGET RATE USED: POUND 0.64

10. Description of Proposed Construction: Construct a two-story structure with reinforced concrete foundations and floor slabs, masonry walls, fire protection, and site improvements. Includes room-bath-room modules, laundries, storage and lounge areas and all necessary support. Includes the demolition of six dormitories totalling 1,850 SM.
Grade Mix: 124 E1-E4.
Maximum Utilization: 124 Personnel

11. REQUIREMENT: 1,207 PN ADEQUATE: 827 PN SUBSTANDARD: 606 PN
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. It is a major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: There are currently not enough adequate dormitories to accommodate the unaccompanied enlisted personnel at this base. Existing substandard facilities have central latrines, inadequate control of heating, insufficient noise attenuation, and lack the required standard of facilities necessary to adequately house enlisted personnel. Local rentals and utilities are so expensive enlisted personnel cannot afford to live off base. Six substandard dormitories totalling 1,850 square meters will be demolished as part of this project.
IMPACT IF NOT PROVIDED: Substandard living conditions will persist degrading morale, productivity, and career satisfaction for unaccompanied enlisted personnel. This problem is further compounded by an increase in

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROYAL AIR FORCE MILDENHALL, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	QFQE923000

mission activities and the beddown of the 352nd Special Operations Group. ADDITIONAL: This project is not eligible for NATO funding. A precautionary prefinancing statement will be submitted in the event the project becomes eligible in the future. This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Fire protection systems for this project meet new standards established in MIL-HNBK 1008B, "Fire Protection for Facilities".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

ROYAL AIR FORCE MILDENHALL, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	QFQE923000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	94 JUL 15
(b) Parametric Cost Estimates used to develop costs	Y
(c) Percent Complete as of Jan 1996	60%
(d) Date 35% Designed.	95 JAN 15
(e) Date Design Complete	96 MAY 15
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	100
(b) All Other Design Costs	
(c) Total	100
(d) Contract	100
(e) In-house	
(4) Construction Start	96 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
VARIOUS LOCATIONS		0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 95										
b. End FY 2001										

7. INVENTORY DATA ($000)

a. Total Acreage: (
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
010-211	PLANNING AND DESIGN	LS	43,387		

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VARIOUS LOCATIONS	PLANNING AND DESIGN

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
9.12.11D	010-211	PAYZ988069	43,387

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PLANNING AND DESIGN	LS			43,387
SUBTOTAL				43,387
TOTAL CONTRACT COST				43,387
TOTAL REQUEST				43,387
TOTAL REQUEST (ROUNDED)				43,387

10. Description of Proposed Construction: The funds requested will be used to provide financing for architectural and engineering services and construction design for Air Force Military Construction Programs.

11. REQUIREMENT: As required.

REQUIREMENT: These planning and design funds are required to complete the design of facilities in the FY 98 Military Construction Program, initiate design of facilities in the FY 99 Military Construction Program and accomplish planning and design for major and complex technical projects with a long lead-time to be included in subsequent Military Construction Programs. Also provides funds for value engineering and for the support of construction management activities of projects that are funded by foreign governments and for design of classified and special programs.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
VARIOUS LOCATIONS		0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95										
b. End FY 2001										

7. INVENTORY DATA ($000)

a. Total Acreage: (
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
010-211	UNSPECIFIED MINOR CONSTRUCTION	LS	9,328		

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VARIOUS LOCATIONS	UNSPECIFIED MINOR CONSTRUCTION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
9.12.11M	010-211	PAYZ924015E	9,328

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UNSPECIFIED MINOR CONSTRUCTION	LS			9,328
SUBTOTAL				9,328
TOTAL CONTRACT COST				9,328
TOTAL REQUEST				9,328
TOTAL REQUEST (ROUNDED)				9,328

10. Description of Proposed Construction: Provide a lump sum amount for unspecified construction projects, not otherwise authorized by law, having a funded cost between $300,000 and $1,500,000, including construction, alteration or conversion of permanent or temporary facilities, in accordance with 10 USC 2805.

11. REQUIREMENT: As required.
REQUIREMENT: This package provides the means of accomplishing urgent projects that are not identified but which are anticipated to arise during FY 97. Included would be projects to support new mission requirements, support of new equipment and concepts and other essential support to Air Force missions and functions that could not wait until availability of FY 98 Military Construction Program funds. 10 USC 2805 provides authority to the Secretaries of the military departments to accomplish projects of this nature.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

FY 1997 NARRATIVE SUMMARY

This Military Family Housing request supports the Congressional concern that excellent housing facilities be provided for all military members and their families and also, that continual improvement in quality is the measure of excellence. We depend first on the local community to meet our housing needs. When local community housing is not available, we will construct military family housing which meets contemporary community living standards. This budget requests funds to operate and maintain our inventory at a standard that attempts to slow the growth in deterioration, and maintains the quality level established by previous Congressional appropriations and guidance. Our goal is to provide quality homes that meet contemporary whole-house standards.

Family housing is one of the most important quality of life issues in the Air Force. Improving or replacing our aging housing inventory is our top facility priority. Our military members and their families expect and deserve homes which meet current standards of livability. Poor housing discourages well-trained and experienced military from re-enlisting. In the era of downsized forces, we cannot afford to lose highly trained Air Force members because adequate housing on or near our military installations is not available. Also, we cannot afford to let our existing military family housing inventory deteriorate, or fail to modernize it to enable future benefits and reduction in operating costs.

This budget provides a balanced program between construction, operations, maintenance, and leasing. The construction funding level indicates the Air Force's commitment to replace or revitalize our existing inventory to meet contemporary standards. We are concentrating on our oldest homes and replacing or improving as economic analyses indicate. We continue to propose projects to provide new support facilities at installations with the greatest need.

The operations, maintenance, and leasing accounts predominately support "must pay" requirements such as civilian pay, service contracts, lease contracts, utilities, and required maintenance to support the cost of ownership in change of occupancy and day-to-day maintenance to keep existing housing units occupied. The maintenance account also supports our goal to arrest, then eliminate, deferred maintenance and repair (DMAR) growth as much as possible within our fiscal constraints.

We believe this funding profile represents a well balanced program to achieve quality of life goals for military families within the fiscal constraints imposed. We respectfully request full and complete support for the Air Force family housing needs presented in this request.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

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DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

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DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

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DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

FINANCIAL SUMMARY

AUTHORIZATION FOR APPROPRIATION REQUESTED FOR FY 1997
($ in Thousands):

FUNDING PROGRAM FY 1997		
Construction		$133,096
Post-Acquisition Construction		88,550
Design and Advance Planning		9,590
Appropriation Request: Construction		$231,236
Operations, Utilities and Maintenance		$721,361
Operating Expenses	125,289	
Utilities	167,985	
Maintenance	428,087	
Leasing - Worldwide		$108,083
Debt Payment		$30
Premiums for Servicemen's Mortgage Insurance Coverage		
Appropriation Request: O&M Leasing, and Debt Payment		$829,474
Appropriation Request		$1,060,710
Reimbursement Program		$10,858
FY 1997 FAMILY HOUSING PROGRAM		$1,071,568

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

Authorization Language

SEC. 2302. FAMILY HOUSING

(a) CONSTRUCTION AND ACQUISITION. - Using amounts appropriated pursuant to the authorization of appropriations in section 2304(a)(5)(A)), the Secretary of the Air Force may construct or acquire family housing units (including land acquisition) at the installations, for the purposes, and in the amounts set forth in the following table:

STATE	INSTALLATION	PURPOSE	AMOUNT
Alaska	Eielson AFB	72 Units	$21,127,000
	Eielson AFB	Housing Fire Station	$ 2,950,000
California	Beale AFB	56 Units	$ 8,893,000
	Travis AFB	70 Units	$ 8,631,000
	Vandenberg AFB	112 Units	$20,891,000
District of Columbia	Bolling AFB	40 Units	$ 5,000,000
Florida	Eglin Auxiliary Field 9	1 Unit	$ 249,000
	MacDill AFB	56 Units	$ 8,822,000
	Patrick AFB	Housing Office	$ 821,000
	Patrick AFB	Housing Maintenance Facility	$ 853,000
	Patrick AFB	Housing Supply & Storage Fac	$ 756,000
Louisiana	Barksdale AFB	80 Units	$ 9,570,000

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

STATE	INSTALLATION	PURPOSE	AMOUNT
Missouri	Whiteman AFB	68 Units	$ 9,600,000
New Mexico	Kirtland AFB	50 Units	$ 5,450,000
North Dakota	Grand Forks AFB	66 Units	$ 7,784,000
	Minot AFB	46nits	$ 8,740,000
Texas	Lackland AFB	50 Units	$ 6,500,000
	Lackland AFB	Housing Office	$ 450,000
	Lackland AFB	Housing Maintenance Facility	$ 350,000
Washington	McChord AFB	40 Units	$ 5,659,000

(b) PLANNING AND DESIGN. - Using amounts appropriated pursuant to the authorization of appropriations in section 2304(a)(5)(A), the Secretary of the Air Force may carry out architectural and engineering services and construction design activities with respect to the construction or improvement of military family housing units in an amount not to exceed $9,590,000.

SEC. 2303. IMPROVEMENT TO MILITARY FAMILY HOUSING UNITS

Subject to section 2825 of title 10, United States Code, and using amounts appropriated pursuant to the authorization of appropriations in section 2304(a)(5)(A), the Secretary of the Air Force may improve existing military family housing units in an amount not to exceed $88,550,000.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

SEC. 2304. AUTHORIZATION OF APPROPRIATIONS, AIR FORCE

(a) IN GENERAL

(5) for Military Family Housing functions -

(A) For construction and acquisition, planning and design, and improvement of military family housing and facilities, $231,236,000.

(B) For support of military family housing (including functions described in section 2833 of title 10, United States Code), $829,474,000.

Appropriation Language

For expenses of family housing for the Air Force for construction, including acquisition, replacement, addition, expansion, extension and alteration and for operations and maintenance, including debt payment, leasing, minor construction, and insurance premiums, as authorized by law as follows: for [FY96] and FY97 Construction,[$297,738,000) $231,236,000, for Operations and Maintenance, and Debt Payment[$849,213,000] $829,474,000; in all [$1,146,951,000] $1,060,710,000: Provided: That the amount for construction shall remain available until September 30, [2000] 2001.

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1991

Identification code 57-7040-0-1-051	Budget Plan (amounts for FAMILY HOUSING actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
01.0101 Construction of new housing				136		
01.0201 Post Acquisition Construction				5,689		
01.0301 Planning and design				960		
01.9101 Total direct program				6,785		
10.0001 Total				6,785		
Financing:						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-6,878		
21.4009 Reprograming from/to prior year budget plan	-94					
25.0001 Unobligated balance expiring	94			94		
39.0001 Budget authority						

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1992

Identification code 57-7040-0-1-051	Budget Plan (amounts for FAMILY HOUSING actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
01.0101 Construction of new housing				869	3,950	
01.0201 Post Acquisition Construction				9,235	12,666	
01.0301 Planning and design				390		
01.9101 Total direct program				10,494	16,616	
10.0001 Total				10,494	16,616	
Financing:						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-27,110	-16,616	
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				16,616		
39.0001 Budget authority						

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1993

Identification code 57-7040-0-1-051	Budget Plan (amounts for FAMILY HOUSING actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
01.0101 Construction of new housing				4,333		2,652
01.0201 Post Acquisition Construction				20,122	4,885	1,238
01.0301 Planning and design				1,305	400	66
01.9101 Total direct program				25,760	5,285	3,956
10.0001 Total				25,760	5,285	3,956
Financing:						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-35,000	-9,241	-3,956
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				9,241	3,956	
39.0001 Budget authority						

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1994

Identification code 57-7040-0-1-051	Budget Plan (amounts for FAMILY HOUSING actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
01.0101 Construction of new housing				23,583	5,796	1,686
01.0201 Post Acquisition Construction				10,734	4,986	2,985
01.0301 Planning and design				6,338	2,639	1,000
01.9101 Total direct program				40,655	13,421	5,671
10.0001 Total				40,655	13,421	5,671
Financing:						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-67,412	-26,757	-13,336
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				26,757	13,336	7,665
39.0001 Budget authority						

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1995

Identification code 57-7040-0-1-051	Budget Plan (amounts for FAMILY HOUSING actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
01.0101 Construction of new housing	207,411			117,414	51,111	10,497
01.0201 Post Acquisition Construction	65,960			61,717	1,900	2,343
01.0301 Planning and design	9,275			5,878	2,105	1,292
01.9101 Total direct program	282,646			185,009	55,116	14,132
10.0001 Total	282,646			185,009	55,116	14,132
Financing:						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans					-97,637	-42,521
22.0001 Unobligated balance transferred to other acco	-1,012			-1,012		
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				97,637	42,521	28,389
39.0001 Budget authority	281,634			281,634		
Budget authority:						
40.0001 Appropriation	277,444			277,444		
42.0001 Transferred from other accounts	4,190			4,190		
43.0001 Appropriation (adjusted)	281,634			281,634		

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1996

Identification code 57-7040-0-1-051	Budget Plan (amounts for FAMILY HOUSING actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
01.0101 Construction of new housing		193,646			106,436	45,546
01.0201 Post Acquisition Construction		95,103			52,306	28,029
01.0301 Planning and design		8,989			4,944	899
01.9101 Total direct program		297,738			163,686	74,474
03.0101 Reimbursable Program		156			156	
10.0001 Total		297,894			163,842	74,474
Financing:						
Offsetting collections from:						
11.0001 Federal funds(-)		-156			-156	
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans						-134,052
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans					134,052	59,578
40.0001 Budget authority (Appropriation)		297,738			297,738	

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1997

Identification code 57-7040-0-1-051	Budget Plan (amounts for FAMILY HOUSING actions programed)			Obligations		
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
01.0101 Construction of new housing			133,096			73,132
01.0201 Post Acquisition Construction			88,550			48,703
01.0301 Planning and design			9,590			5,275
01.9101 Total direct program			231,236			127,110
03.0101 Reimbursable Program			156			156
10.0001 Total			231,392			127,266
Financing:						
Offsetting collections from:						
11.0001 Federal funds(-)			-156			-156
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans						104,126
40.0001 Budget authority (Appropriation)			231,236			231,236

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) SUMMARY

Identification code 57-7040-0-1-051	Budget Plan (amounts for FAMILY HOUSING actions programed) 1995 actual	1996 est.	1997 est.	Obligations 1995 actual	1996 est.	1997 est.
Program by activities:						
Direct program:						
01.0101 Construction of new housing	207,411	193,646	133,096	146,335	167,293	133,513
01.0201 Post Acquisition Construction	65,960	95,103	88,550	107,497	76,743	83,298
01.0301 Planning and design	9,275	8,989	9,590	14,871	10,088	8,532
01.9101 Total direct program	282,646	297,738	231,236	268,703	254,124	225,343
03.0101 Reimbursable Program		156	156		156	156
10.0001 Total	282,646	297,894	231,392	268,703	254,280	225,499
Financing:						
Offsetting collections from:						
11.0001 Federal funds(-)		-156	-156		-156	-156
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-136,400	-150,251	-193,865
21.4009 Reprograming from/to prior year budget plan	-94					
22.0001 Unobligated balance transferred to other acco	-1,012			-1,012		
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				150,251	193,865	199,758
25.0001 Unobligated balance expiring	94			94		
39.0001 Budget authority	281,634	297,738	231,236	281,634	297,738	231,236
Budget authority:						
40.0001 Appropriation	277,444	297,738	231,236	277,444	297,738	231,236
42.0001 Transferred from other accounts	4,190			4,190		
43.0001 Appropriation (adjusted)	281,634	297,738	231,236	281,634	297,738	231,236
Relation of obligations to outlays:						
71.0001 Obligations incurred				268,703	254,124	225,343
72.4001 Obligated balance, start of year				270,945	274,080	319,692
74.4001 Obligated balance, end of year				-274,080	-319,692	-299,780
77.0001 Adjustments in expired accounts (net)				-454		
90.0001 Outlays (net)				265,114	208,512	245,255

Family Housing Construction, Air Force
Object Classification (in Thousands of dollars) SUMMARY

Identification code 57-7040-0-1-051	1995 actual	1996 est.	1997 est.
Direct obligations:			
132.001 Land and structures	268,703	254,124	225,343
199.001 Total Direct obligations	268,703	254,124	225,343
Reimbursable obligations:			
232.001 Land and structures		156	156
299.001 Total Reimbursable obligations		156	156
999.901 Total obligations	268,703	254,280	225,499

Family Housing Operations & Debt, AF
Program and Financing (in Thousands of dollars)

Identification code 57-7045-0-1-051		1995 actual	1996 est.	1997 est.
	Program by activities:			
	Direct program:			
02.0101	Operating expenses	294,147	324,548	293,274
02.0201	Leasing	100,329	115,665	108,083
02.0301	Maintenance of real property	445,634	408,971	428,087
02.0501	Mortgage insurance premiums	26	29	30
02.9101	Total direct program	840,136	849,213	829,474
03.0101	Reimbursable Program	12,588	10,676	10,858
10.0001	Total obligations	852,724	859,889	840,332
	Financing:			
	Offsetting collections from:			
11.0001	Federal funds(-)	-5,050	-2,989	-3,040
14.0001	Non-Federal sources(-)	-7,538	-7,687	-7,818
22.0001	Unobligated balance transferred to other accounts	-22,710		
25.0001	Unobligated balance expiring	7,419		
40.0001	Budget authority (Appropriation)	824,845	849,213	829,474
	Relation of obligations to outlays:			
71.0001	Obligations incurred	840,136	849,213	829,474
72.1001	Orders on hand, SOY	-1,740	-4,186	
72.4001	Obligated balance, start of year	376,827	384,977	401,610
74.1001	Orders on hand, EOY	4,186		
74.4001	Obligated balance, end of year	-384,977	-401,610	-415,659
77.0001	Adjustments in expired accounts (net)	-20,272		
90.0001	Outlays (net)	814,160	828,394	815,425

Family Housing Operations & Debt, AF
Object Classification (in Thousands of dollars)

Identification code 57-7045-0-1-051		1995 actual	1996 est.	1997 est.
	Direct obligations:			
121.001	Travel and transportation of persons	1,001	1,837	1,014
122.001	Transportation of things	161	1,460	176
123.201	Rental payments to others	72,718	75,204	45,787
125.201	Other services with the private sector	713,464	723,241	714,256
126.001	Supplies and materials	34,191	30,660	47,920
131.001	Equipment	14,982	14,723	16,361
132.001	Land and structures	3,619	2,088	3,960
199.001	Total Direct obligations	840,136	849,213	829,474
	Reimbursable obligations:			
225.201	Other services with the private sector	12,588	10,676	10,858
299.001	Total Reimbursable obligations	12,588	10,676	10,858
999.901	Total obligations	852,724	859,889	840,332

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

NEW/CURRENT MISSION ACTIVITIES

In compliance with the Senate Appropriations Committee Report (100-380) on the FY 1989 Military Construction Appropriation Act, the Air Force has included the following exhibit that displays construction projects requested in two separate categories: new mission and current mission. "New Mission" projects are projects that support deployment and beddown of new weapon systems, new program initiatives, and major mission expansions. "Current mission" projects are projects that either replace inadequate existing facilities or construct new facilities which are not available to meet current requirements.

LOCATION	MISSION	NUMBER OF UNITS	REQUESTED AUTHORIZATION AMOUNT ($000)
NEW CONSTRUCTION			
Eglin Auxiliary Field 9	Current	1	249
Whiteman AFB MO	New	68	9,600
REPLACEMENT HOUSING			
Eielson AFB AK	Current	72	21,127
Beale AFB CA	Current	56	8,893
Travis AFB CA	Current	70	8,631
Vandenberg AFB CA	Current	112	20,891
Bolling AFB DC	Current	40	5,000
MacDill AFB FL	Current	56	8,822
Barksdale AFB LA	Current	80	9,570
Kirtland AFB NM	Current	50	5,450
Grand Forks AFB ND	Current	66	7,784
Minot AFB ND	Current	46	8,740
Lackland AFB TX	Current	50	6,500
McChord AFB WA	Current	40	5,659

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

SUPPORT FACILITIES

Eielson AFB AK	Current	HSG Fire Station	2,950
Patrick AFB FL	Current	HSG Offc	821
Patrick AFB FL	Current	HSG Maint Facility	853
Patrick AFB FL	Current	HSG Warehouse	756
Lackland AFB TX	Current	HSG Offc	450
Lackland AFB TX	Current	HSG Maint Facility	350
NEW MISSION TOTAL			9,600
CURRENT MISSION TOTAL			123,496
IMPROVEMENTS			88,550
PLANNING AND DESIGN			9,590
GRAND TOTAL			231,236

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

NEW CONSTRUCTION

Program (In Thousands)
FY 1997 Program $158,198
FY 1996 Program $154,955

Purpose and Scope

This program provides for the construction of new homes where the local community cannot provide adequate housing and replacement of existing homes, where improvements are not economically feasible for Air Force personnel, and support facilities where existing facilities are inadequate. Cost reflect all amounts necessary to provide complete and usable facilities.

Program Summary

Authorization is requested for:

Construction of 69 new units, replacement of 738 units and 6 support facilities.

A summary of the funding program for FY 1997 is as follows:

LOCATIONS	MISSION	NUMBER OF UNITS	REQUESTED AUTHORIZATION AMOUNT ($000)
NEW HOUSING			
Eglin Auxiliary Field 9 FL	Current	1	249
Whiteman AFB MO	New	68	9,600
REPLACEMENT HOUSING			
Eielson AFB AK	Current	72	21,127
Beale AFB CA	Current	56	8,893
Travis AFB CA	Current	70	8,631
Vandenberg AFB CA	Current	112	20,891
Bolling AFB DC	Current	40	5,000
MacDill AFB FL	Current	56	8,822
Barksdale AFB LA	Current	80	9,570
Kirtland AFB NM	Current	50	5,450
Grand Forks AFB ND	Current	66	7,784
Minot AFB ND	Current	46	8,740
Lackland AFB TX	Current	50	6,500
McChord AFB WA	Current	40	5,659

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

SUPPORT FACILITIES			
Eielson AFB AK	Current	Hsg Fire Station	2,950
Patrick AFB FL	Current	Hsg Office	821
Patrick AFB FL	Current	Hsg Maint Fac	853
Patrick AFB FL	Current	Hsg Warehouse	756
Lackland AFB TX	Current	Hsg Office	450
Lackland AFB TX	Current	Hsg Maint Fac	350
New Mission			9,600
Current Mission Total			123,496
Improvements			88,550
Planning and Design			9,590
Grand Total			231,236

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
EIELSON AIR FORCE BASE, ALASKA	PACIFIC AIR FORCES	1.97

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 95	303	2760	503							3,566
b. End FY 2001	301	2705	492							3,498

7. INVENTORY DATA ($000)

a. Total Acreage: (19,945)	
b. Inventory Total As Of: (30 SEP 95)	464,815
c. Authorization Not Yet In Inventory:	13,300
d. Authorization Requested In This Program:	24,077
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	502,192

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
130-142	FIRE STATION	8,500 SF	2,950	APR 95	APR 96
711-142	REPLACE FAMILY HOUSING (PHASE 3)	72 UN	21,127	AUG 95	JUN 96
		TOTAL:	24,077		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A fighter wing with one F-16 and one A/OA-10 squadron, and a fighter training squadron responsible for Cope Thunder exercises; an Air Education and Training Command group that conducts Arctic Survival School; and an Air National Guard KC-135 air refueling detachment.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EIELSON AFB, ALASKA	REPLACE FAMILY HOUSING (PHASE 3)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	711-142	FTQW974003R2	21,127

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
	UN	72	177,326	12,768
SUPPORTING FACILITIES				6,304
SITE PREPARATION	LS			(642)
ROADS AND PAVING	LS			(755)
UTILITIES	LS			(841)
LANDSCAPING	LS			(221)
GARAGES AND UTILIDOR	LS			(1,876)
DEMOLITION & ENVIRONMENTAL COMPLIANCE	LS			(1,970)
SUBTOTAL				19,072
CONTINGENCY (5%)				954
TOTAL CONTRACT COST				20,026
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				1,101
TOTAL REQUEST				21,127
AREA COST FACTOR 1.97				

10. Description of Proposed Construction: Construct 72 JNCO replacement housing units, 72 three-bedroom, in accordance with the Housing Comunity Plan (HCP); with all associated supporting construction, community development, and landscaping. Demolish 16 eight-plex buildings; backfill excavations with non-frost susceptible material and compact. Includes 300 Net SF of interior recreational space for harsh climate area.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 3BR	139	1.93	661	72	12,767,506
				72	12,767,506

11. REQUIREMENT: 2,057 UN ADEQUATE: 1,329 UN SUBSTANDARD: 741 UN

PROJECT: Replace Military Family Housing. (Current Mission)

REQUIREMENT: Modern housing meeting square footage requirements and all contemporary standards is required for military housing at Eielson Air Force Base. This project follows the recommendations of the HCP. It will provide energy efficient, comfortable and appealing, as well as safe units, replacing eight-plex units built in 1953. These units will meet standards of the newest housing in the civilian community, provide full net square footage, good functional layout, energy efficient design and construction, a single car garage, and ample storage space. All required neighborhood development, utility and road support, is part of this project. This is the third of multiple phases to replace housing. 249 units have been replaced/upgraded or are approved in previous phases and 741 units remain to be replaced/upgraded.

CURRENT SITUATION: Existing eight-plex units, built in 1953, are too

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EIELSON AFB, ALASKA

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE FAMILY HOUSING (PHASE 3)	FTQW974003R2

small, have poor functional layout, inadequate insulation, and no vapor barrier. Wiring is ungrounded two-conductor with deteriorated cloth insulation, creating a fire hazard. Steam heat is impossible to regulate and has asbestos insulation. Three eight-plex buildings per court creates a crowded environment. There is open parking with insufficient spaces or parking in gang garages. No neighborhood distinction or identification exists. Area landscaping is minimal.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in inadequate quarters. The cost of maintenance for these old units will continue to increase. Obsolete heating systems and inadequate insulation will continue to prevent proper temperature control and high heating costs will continue. Further breakdown of asbestos insulation will increase the health hazard to occupants and maintenance personnel. New Section 801 housing under construction will be the standard for modern units and could cause a morale problem for personnel living in the old units.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". This project does not increase the student population. No additional school construction will be required. The June 93 Housing Market Analysis for Eielson AFB contains a projected surplus of 13 units.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME Eielson Air Force Base	b. LOCATION Fairbanks, Alaska	
5. DATA AS OF Sep94			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT OFFICER (a)	CURRENT E9-E4 (b)	CURRENT E3 - E1 (c)	CURRENT TOTAL (d)	PROJECTED OFFICER (e)	PROJECTED E9 -E4 (f)	PROJECTED E3 - E1 (g)	PROJECTED TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	271	2,201	554	3,026	272	1,978	614	2,864
7. PERMANENT PARTY PERSONNEL	271	2,201	554	3,026	272	1,978	614	2,864
8. GROSS FAMILY HOUSING REQUIREMENTS	214	1,873	188	2,275	209	1,682	191	2,082
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS	0	0	0	0	0	0	0	0
11. EFFECTIVE HOUSING REQUIREMENTS	214	1,873	188	2,275	209	1,682	191	2,082
12. HOUSING ASSETS (a + b)	195	1,669	116	1,980	206	1,100	678	1,984
a. UNDER MILITARY CONTROL	102	1,053	116	1,271	151	827	678	1,656
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	102	1,053	116	1,271	151	827	678	1,656
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	29				
b. PRIVATE HOUSING	93	616	0	709	55	273	0	328
(1) ACCEPTABLY HOUSED	93	616	0	709				
(2) ACCEPTABLE VACANT RENTAL								
13. EFFECTIVE HOUSING DEFICIT	19	204	72	295	3	582	(487)	98
14. PROPOSED PROJECT					0	72	0	72

15. REMARKS

DD FORM 1523, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE, ALASKA	FIRE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	130-142	FTQW974002	2,950

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE STATION	SM	790	2,582	2,040
SUPPORTING FACILITIES				623
UTILITIES & UTILIDOR	LS			(300)
SITE IMPROVEMENTS	LS			(108)
PARKING	EA	12	2,666	(32)
ROADS	LS			(33)
ENVIRONMENTAL COMPLIANCE	LS			(150)
SUBTOTAL				2,663
CONTINGENCY (5%)				133
TOTAL CONTRACT COST				2,796
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				154
TOTAL REQUEST				2,950
AREA COST FACTOR 1.97				

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab with insulated wall and roofing system. Facility includes alarm/communication center, vehicle garage, fitness room, day/recreation room, kitchen/dining room, sleeping rooms, shower/restrooms, lighted parking, alarm/PA system, and all necessary utilities and necessary support.
Air Conditioning: 8 KW.

11. REQUIREMENT: 41,364 SF ADEQUATE: 24,364 SF SUBSTANDARD: 0
PROJECT: Construct a new fire (sub) station. (Current Mission)
REQUIREMENT: This fire station is urgently needed to enable fire fighters to respond to emergencies in the Military Family Housing (MFH) area. The station will house eight fire fighters and two structural pumper trucks. To insure adequate fire protection for multiple housing units, Department of Defense Instruction (DODI) 6055.6 and Air Force Regulation (AFR) 92-1 limit the maximum travel distance and response time of structural fire companies to three miles and six minutes, respectively.
CURRENT SITUATION: The existing fire station is located near the flightline, approximately 3.1 miles from the farthest MFH unit. During simulated emergency response runs conducted by the Eielson Fire Department, average response time exceeded eight minutes. During winter time, with snow and icy roads and reduced visibility due to winter darkness and ice fog, fire trucks are forced to travel more slowly than usual. In addition, a railroad track in daily use for supplying coal to the central heat plant crosses the roads leading to the housing area. When a train is blocking the most direct access, Fire trucks would have to take an alternate route or wait for the train to be moved. Either case

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
EIELSON AIR FORCE BASE, ALASKA	
4. PROJECT TITLE	5. PROJECT NUMBER
FIRE STATION	FTQW974002

would add several minutes to the response time. Additional housing units are under construction at Eielson. The location of these units adds two to three minutes to the response time.

IMPACT IF NOT PROVIDED: Fire fighter response time to the MFH areas will remain unacceptable and out of compliance with DODI 6055.6 and AFR 92-1 standards. This serious deficiency could result in loss of life and unnecessary loss of Air Force property.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements". There is no scope or criterion for this project in Military Handbook 1190, "Facility Planning and Design Guide." An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
BEALE AIR FORCE BASE, CALIFORNIA	AIR COMBAT COMMAND	1.24

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	355	2806	402				20	60	116	3,759
b. End FY 2001	353	2818	402				20	60	116	3,769

7. INVENTORY DATA ($000)

a. Total Acreage: (22,944)	
b. Inventory Total As Of: (30 SEP 95)	190,315
c. Authorization Not Yet In Inventory:	26,950
d. Authorization Requested In This Program:	8,893
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	10,310
g. Remaining Deficiency:	0
h. Grand Total:	236,468

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	REPLACE MILITARY FAMILY HOUSING (PHASE 2)	56 UN	8,893	TURN KEY	
		TOTAL:	8,893		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

711-142	REPLACE MILITARY FAMILY HOUSING (PHASE 3)	80 UN	10,310

10. Mission or Major Functions: A Reconnaissance Wing which includes two U-2 reconnaissance squadrons, one of which is responsible for training all U-2 aircrews; a Contigency Airborne Reconnaissance System (CARS); an Air Force Space Command missile warning squadron which operates one of the Phased Array Warning System (Pave PAWS) radars; and an Air Force Reserve Wing with KC-135 aircraft scheduled to arrive as a result of Base Closure action.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BEALE AIR FORCE BASE, CALIFORNIA	REPLACE MILITARY FAMILY HOUSING (PHASE 2)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	711-142	BAEY961007	8,893

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FY70 APPROPRIATED FAMILY HSG	UN	56	73,292	4,104
SUPPORTING FACILITIES				3,924
SITE PREPARATION	LS			(1,580)
ROADS AND PAVING	LS			(122)
UTILITIES	LS			(108)
LANDSCAPING	LS			(112)
RECREATION	LS			(1,246)
OTHER (SPECIFY) DEMO, ENVIRON CLEAN-UP	LS			(756)
SUBTOTAL				8,028
CONTINGENCY (5%)				401
TOTAL CONTRACT COST				8,429
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				464
TOTAL REQUEST				8,893
AREA COST FACTOR 1.24				

10. Description of Proposed Construction: Replace 56 housing units. Includes demolition, site clearing, replacement/upgrade of utility systems and roads, and design and construction of single/duplex family units. Provides normal amenities to include appliances, garages, parking, air conditioning, patios and privacy fencing, neighborhood playgrounds, and recreation areas. Includes asbestos and lead-based paint removal.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 2BR	88	1.26	661	56	4,104,334
				56	4,104,334

11. REQUIREMENT: 2,529 UN ADEQUATE: 988 UN SUBSTANDARD: 1,636 UN
PROJECT: Replace Military Family Housing (Phase 2). (Current Mission)
REQUIREMENT: This project is required to provide modern and efficient replacement housing for military members and their dependents stationed at Beale AFB. All units will meet "whole house" standards and are programmed in accordance with Phase "A" of the Housing Community Plan. Replacement housing will provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. This is the second of multiple phases to upgrade or replace 1,708 housing units in this initiative. 1,552 units remain upon completion of this phase. The replacement housing will provide a modern kitchen, living room, dining room and bath configuration, with ample interior and exterior storage and garages. Off-street parking will be provided for a second vehicle. The basic neighborhood support infrastructure will be upgraded to meet modern housing needs. Neighborhood enhancements will include landscaping,

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BEALE AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE MILITARY FAMILY HOUSING (PHASE 2)	BAEY961007

playgrounds, and recreation areas.

CURRENT SITUATION: This project replaces housing which is over 30 years old and is showing the effects of age and continuous heavy use. They have had no major upgrades since construction, and do not meet the needs of today's families, nor do they provide a modern home environment. Roofs, walls, foundations and exterior pavements require major repair or replacement due to the effects of age and the environment. Roof structures show signs of rot; leaks have made already inadequate (by todays standards) insulation even less effective. Foundations and pavements are showing signs of failure due to settlement. Plumbing and electrical systems are antiquated and do not meet current standards for efficiency or safety. Housing interiors are generally inadequate by any modern criteria. Bedrooms are small and lack adequate closet space. Bathrooms are small, and fixtures are outdated and energy inefficient. Kitchens have inadequate storage and counter space, cabinets are old and unsightly, countertops and sinks are badly worn. There is no space for a dishwasher. Flooring throughout the house is outdated, and contains evidence of asbestos. Plumbing and electrical systems are outdated and require abnormal maintenance and repair. Electrical circuits do not meet National Electric Code requirements. Lighting systems throughout the houses are inefficient and do not meet modern needs. Heating and air conditioning systems require upgrade or replacement. Rain run-off currently "ponds" under many of the houses resulting in moisture deterioration.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to live in extremely outdated and unsatisfactory housing. This 30 year old housing will continue to deteriorate with age, resulting in increasing and unacceptable maintenance and repair costs, and extreme inconvenience to the occupants. Without this and subsequent phases of this initiative, repairs will continue in a costly, piecemeal fashion with little or no improvement in occupant quality of life. These deficiencies will continue to adversely affect the morale of all personnel assigned to the base. The current Housing Market Analysis shows a projected deficit of 67 units, thus adequate/affordable off-base housing is unavailable.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". Since this is replacement housing, there will be no increase in the student population or impact on the ability of the local school district to support base dependents. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing, and status quo operation. Based on the net present values and benefits of the respective alternatives, replacement was found to be the most cost effective over the life of the project. Improvement costs represent 81% of the replacement value. This project will be executed as a Request For Proposal, and will include options for accomplishment of phase 3.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME Beale Air Force Base	b. LOCATION Marysville, California	
5. DATA AS OF Aug 94			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	454	2,217	717	3,388	455	2,331	715	3,501
7. PERMANENT PARTY PERSONNEL	454	2,217	717	3,388	455	2,331	715	3,501
8. GROSS FAMILY HOUSING REQUIREMENTS	333	1,659	239	2,231	336	1,746	237	2,319
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS	0	0	0	0	0	0	0	0
11. EFFECTIVE HOUSING REQUIREMENTS	333	1,659	239	2,231	336	1,746	237	2,319
12. HOUSING ASSETS (a + b)	339	1,658	234	2,231	336	1,737	234	2,307
a. UNDER MILITARY CONTROL	206	1,357	144	1,707	206	1,358	143	1,707
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	206	1,357	144	1,707	206	1,358	143	1,707
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	133	301	90	524	130	379	91	600
(1) ACCEPTABLY HOUSED	87	127	3	217				
(2) ACCEPTABLE VACANT RENTAL	46	174	87	307				
13. EFFECTIVE HOUSING DEFICIT	(6)	1	5	0	0	9	3	12
14. PROPOSED PROJECT					0	72	0	72

15. REMARKS

DD FORM 1523, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
TRAVIS AIR FORCE BASE, CALIFORNIA	AIR MOBILITY COMMAND	1.25

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1380	6901	1898				11	160	188	10,538
b. End FY 2001	1304	6352	1822				11	160	188	9,837

7. INVENTORY DATA ($000)

a. Total Acreage: (6,272)	
b. Inventory Total As Of: (30 SEP 95)	435,470
c. Authorization Not Yet In Inventory:	46,700
d. Authorization Requested In This Program:	8,631
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	930
g. Remaining Deficiency:	0
h. Grand Total:	491,731

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	REPLACE FAMILY HOUSING	70 UN	8,631	TURN KEY	
		TOTAL:	8,631		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

713-366	EXPAND TRAILER COURT PARKING	30 EA	930

10. Mission or Major Functions: Headquarters Fifteenth Air Force; an air mobility wing with two C-5, one C-141, and two KC-10 squadrons; an Air Force Reserve C-5/C-141/KC-10 associate air mobility wing; an Air Mobility Operations group (AMOG); and a major USAF medical center.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TRAVIS AIR FORCE BASE, CALIFORNIA	REPLACE FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	711-142	XDAT974000	8,631

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	70	81,127	5,679
SUPPORTING FACILITIES				2,113
EARTHWORK	LS			(466)
DEMOLITION	LS			(427)
UTILITIES	LS			(220)
LANDSCAPING	LS			(259)
PATIOS/FENCES/DRIVEWAYS	LS			(376)
UNDERGROUND ELECTRICAL & PHONE	LS			(221)
ASBESTOS/LEAD BASE PAINT REMOVAL	LS			(144)
SUBTOTAL				7,792
CONTINGENCY (5%)				390
TOTAL CONTRACT COST				8,182
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				450
TOTAL REQUEST				8,631
AREA COST FACTOR 1.25				

10. Description of Proposed Construction: Replace 70 housing units. Includes site preparation, utilities, roads, and landscaping. Amenities include heating, air-conditioning, carpeting, garages, appliances, patios, and privacy fencing. Includes demolition of existing units, asbestos and lead-based paint removal. Allows for density reduction.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 2BR	88	1.28	661	46	3,424,932
JNCO 3BR	111	1.28	661	24	2,253,957
				70	5,678,889

11. PROJECT: Replace family housing units (remainder of Phase E). (Current Mission)
REQUIREMENT: Project will provide modern and efficient housing for military members and their families assigned at Travis AFB. All units will meet "whole house/neighborhood" standards and provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. Project is programmed IAW the Housing Community Plan.
CURRENT SITUATION: This project replaces houses constructed in 1951. These 43-year old houses are undersized, meet none of the "whole house/neighborhood" standards, and show effect of continuous heavy use. They have had no major upgrades since construction and do not meet the needs of today's families. Roofs, walls, foundations and exterior pavements require major repair or replacement owing to the effects of age. Roof structures show signs of rot. Plumbing and electrical systems are antiquated and do not meet current standards for efficiency or safety.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

TRAVIS AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE FAMILY HOUSING	XDAT974000

Housing interiors are inadequate by any modern criteria. Bedrooms are small and lack closet space. Bathrooms are small, fixtures are outdated and energy-inefficient. Kitchens lack sufficient storage and counterspace, cabinets are old and unsightly, and countertops and sinks are badly worn. Flooring throughout the house is outdated and contains evidence of asbestos. Plumbing and electrical systems are outdated and do not meet current safety codes. There are no Ground Fault Interruptor Circuit protection, and outlets lack grounding protection. Lighting systemare inefficient and require replacement. Air conditioning and heating systems require upgrade. The patios are cracking and lack privacy fencing.

IMPACT IF NOT PROVIDED: Air Force members and families will continue to be inadequately housed. Low morale and retention problems can be expected since suitable, affordable off-base housing is not available. The most recent Housing Market Analysis shows an off-base deficit of 822 units. Units will continue to deteriorate resulting in escalating operations, maintenance and repair costs to the Government.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Since this is replacement housing, there will be no increase in the student population or impact on the ability of the local school district to support base dependents.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME Travis Air Force Base	b. LOCATION Solano County, California	
5. DATA AS OF May 1995			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	1,525	4,863	1,576	7,964	1,341	5,205	1,687	8,233
7. PERMANENT PARTY PERSONNEL	1,525	4,863	1,576	7,964	1,341	5,205	1,687	8,233
8. GROSS FAMILY HOUSING REQUIREMENTS	991	3,623	437	5,051	871	3,876	466	5,213
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS	40	220	27	287	31	233	30	294
11. EFFECTIVE HOUSING REQUIREMENTS	951	3,403	410	4,764	840	3,643	436	4,919
12. HOUSING ASSETS (a + b)	890	3,132	410	4,432	789	3,259	436	4,484
a. UNDER MILITARY CONTROL	274	1,782	410	2,466	274	1,756	436	2,466
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	274	1,782	410	2,466	274	1,756	436	2,466
(2) UNDER CONTRACT/APPROVED								
(3) VACANT								
(4) INACTIVE								
b. PRIVATE HOUSING	616	1,350	0	1,966	515	1,503	0	2,018
(1) ACCEPTABLY HOUSED	616	1,350	0	1,966				
(2) ACCEPTABLE VACANT RENTAL								
13. EFFECTIVE HOUSING DEFICIT	61	271	0	332	51	384	0	435
14. PROPOSED PROJECT					0	70	0	70

15. REMARKS

DD FORM 1523, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
VANDENBERG AIR FORCE BASE, CALIFORNIA	AIR FORCE SPACE COMMAND	1.36

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	634	2344	1156							4,134
b. End FY 2001	616	2274	1102							3,992

7. INVENTORY DATA ($000)

a. Total Acreage: (98,256)	
b. Inventory Total As Of: (30 SEP 95)	1,106,764
c. Authorization Not Yet In Inventory:	32,528
d. Authorization Requested In This Program:	20,891
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	1,160,183

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	REPLACE FAMILY HOUSING, PHASE 4	112 UN	20,891	NOV 95	MAY 96
		TOTAL:	20,891		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Headquarters Fourteenth Air Force; a space wing with UH-1 aircraft; West Coast space launch and missile test operations; an Air Force Materiel Command detachment of the Space and Missile Systems Center; and an Air Education and Training Command space and missile training group.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VANDENBERG AIR FORCE BASE, CALIFORNIA	REPLACE FAMILY HOUSING, PHASE 4

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	711-142	XUMU974003	20,891

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING, PHASE 4	UN	112	90,677	10,156
SUPPORTING FACILITIES				8,703
SITE PREPARATION	LS			(300)
ROADS AND PAVING	LS			(2,725)
UTILITIES	LS			(1,125)
LANDSCAPING	LS			(487)
RECREATION	LS			(828)
DEMOLITION/ASBESTOS/LBP REMOVAL	LS			(3,239)
SUBTOTAL				18,859
CONTINGENCY (5%)				943
TOTAL CONTRACT COST				19,802
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				1,089
TOTAL REQUEST				20,891
AREA COST FACTOR 1.36				

10. Description of Proposed Construction: Replace 112 housing units. Includes demolition, site grading, replacement/upgrade of utilities and pavements, & construction of new housing units. Provides all needed amenities such as parking, garages, storage, patios, fencing, tot lots, recreation areas, parks, lights, & trails. Includes demolition & disposal of asbestos, lead-based paints, and undergound srorage tanks.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 2BR	88	1.35	661	53	4,161,920
JNCO 3BR	111	1.35	661	47	4,655,390
JNCO 4BR	125	1.35	661	12	1,338,525
				112	10,155,835

11. REQUIREMENT: 2,023 UN ADEQUATE: 211 UN SUBSTANDARD: 2,078 UN
PROJECT: Replace Military Family Housing (Phase 4). (Current Mission)
REQUIREMENT: This project is required to provide modern, efficient, and safe housing for military members and their dependents stationed at Vandenberg AFB. All units are to meet "whole house" standards and are programmed in accordance with Phase 4 of the Housing Community Plan (HCP). Replacement housing will provide a living environment comparable to the off-base civilian community. Units being replaced are not surplus to the base mission. This is the fourth of thirteen phases to provide adequate housing for base personnel. Of the 1812 units to be replaced in this multi-phase initiative, 428 are completed or included in prior programs, and 1246 will follow in subsequent phases. New housing will have modern kitchen, family room, bedroom, bathroom, ample storage, garage, and

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
VANDENBERG AIR FORCE BASE, CALIFORNIA	
4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE FAMILY HOUSING, PHASE 4	XUMU974003

parking for guests. Basic neighborhood support infrastructure will be upgraded to modern standards. Improvements will include landscaping, playgrounds, walks, handicap access, signs, lights, irrigation, recreation areas, fitness course, utility upgrades, and new arterial road.

CURRENT SITUATION: These units are over 30 years old and have deteriorated to the point where replacement is the most economical alternative. Wiring and fixtures have been identified by the Fire Department and Base Safety as a fire hazard; wiring is brittle and exposed. There are no Ground Fault Interrupters (a life safety hazard). Fixtures are energy inefficient. Plumbing systems have succumbed to the effects of hard water and corrosion, resulting in severe constriction and pipe leakage. Overhead pipes in the attics leak, causing ceiling and property damage and irritation to occupants. Corroded sewers in and under the floor slab leak. Some roof structures are sagging. There is no family room and insufficient bulk storage. Kitchens have inefficient work space/circulation, worn out/insufficient cabinets. Bathroom fixtures, vanities, and appointments are worn and outmoded. Plumbing fixtures are worn and unattractive. Baths are deteriorated and outdated; shower enclosures and medicine cabinets are corroded, discolored, and pitted. The way the units are presently configured is inefficient. These houses have had no major upgrades since construction, and do not meet the needs of today's families, nor do they provide a modern home environment. Roofs, walls, foundations, and sidewalks require major repair or replacement due to the effects of age and the environment. Housing interiors are generally inadequate by any modern criteria. Utility wires and poles clutter the streetscape. Traffic congestion requires new arterial road. There is a lack of trees on streets, lawns, and open spaces. Based on an increased requirement for 2-bedroom units, we will need to convert some of the 3-bedroom units into 2-bedroom units.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed without minimal water and electrical service. The occupants will suffer continual water leaks in their ceilings damaging light fixtures, and furniture under the leaks. We would not be providing a living environment that promotes pride, professionalism, and individual dignity. The current Housing Market Analysis shows an on-base housing surplus of 276 units. none of the units being replaced are surplus units. Without this and subsequent phases of this initiative, costly piecemeal repairs will continue out of necessity, with no improvement in the living quality. Without new arterial road, traffic congestion will continue.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Since this is replacement housing, there will be no increase in the student population or impact on the ability of the local school district to support base dependents.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME Vandenberg AFB	b. LOCATION Santa Barbara County, California	
5. DATA AS OF Apr 95			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	748	2,057	707	3,512	846	2,046	936	3,828
7. PERMANENT PARTY PERSONNEL	748	2,057	707	3,512	846	2,046	936	3,828
8. GROSS FAMILY HOUSING REQUIREMENTS	487	1,526	167	2,180	517	1,514	214	2,245
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS								
11. EFFECTIVE HOUSING REQUIREMENTS	487	1,526	167	2,180	517	1,514	214	2,245
12. HOUSING ASSETS (a + b)	496	1,688	6	2,190	518	1,682	44	2,244
a. UNDER MILITARY CONTROL	496	1,580	0	2,076	496	1,580	0	2,076
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	496	1,580	0	2,076	496	1,580	0	2,076
(2) UNDER CONTRACT/APPROVED								
(3) VACANT								
(4) INACTIVE								
b. PRIVATE HOUSING	0	108	6	114	22	102	44	168
(1) ACCEPTABLY HOUSED								
(2) ACCEPTABLE VACANT RENTAL								
13. EFFECTIVE HOUSING DEFICIT	(9)	(162)	161	(10)	(1)	(168)	170	1
14. PROPOSED PROJECT					0	112	0	112

15. REMARKS

DD FORM 1523, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA	AIR FORCE DISTRICT OF WASHINGTON	1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	626	1618	965				1	39	217	3,466
b. End FY 2001	612	1573	915				1	39	217	3,357

7. INVENTORY DATA ($000)

a. Total Acreage: (607)	
b. Inventory Total As Of: (30 SEP 95)	242,110
c. Authorization Not Yet In Inventory:	11,400
d. Authorization Requested In This Program:	5,000
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	258,510

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	REPLACE MILITARY FAMILY HOUSING (PHASE 5)	40 UN	5,000	TURN KEY	
		TOTAL:	5,000		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Supports Air Force personnel in the National Capitol Region. Headquarters USAF functions include Chief of Chaplains, Surgeon General, and Historian; Headquarters Air Force Office of Special Investigation; Air Force Office of Scientific Research; Air Force Legal Services Agency; Air Force Medical Support Agency; USAF Band; and USAF Honor Guard.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BOLLING AIR FORCE BASE WASHINGTON DISTRICT OF COLUMBIA	REPLACE MILITARY FAMILY HOUSING (PHASE 4)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	711-142	BXUR974005	5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FY70 APPROPRIATED FAMILY HSG	UN	40	87,445	3,498
SUPPORTING FACILITIES				1,016
SITE PREPARATION	LS			(185)
ROADS AND PAVING	LS			(153)
UTILITIES	LS			(311)
LANDSCAPING	LS			(167)
OTHER: LEAD BASED PAINT REMEDIATION	LS			(200)
SUBTOTAL				4,514
CONTINGENCY (5%)				226
TOTAL CONTRACT COST				4,740
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				261
TOTAL REQUEST				5,000
AREA COST FACTOR 1.03				

10. Description of Proposed Construction: Demolish 40 Military Family Housing units and replace with 40 new units of same bedroom composition. Construction includes site preparation, utility system alteration, road repair and alteration, improvements to common and recreation areas.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 3BR	111	1.05	693	18	1,453,845
JNCO 4BR	125	1.05	693	9	818,606
JNCO 5BR	144	1.05	693	1	104,782
SNCO 3BR	125	1.05	693	8	727,650
SNCO 4BR	135	1.05	693	4	392,931
				40	3,497,814

11. REQUIREMENT: 6,710 UN ADEQUATE: 3,482 UN SUBSTANDARD: 862 UN
PROJECT: Replace 40 Military Family Housing units. Improve common grounds, recreation areas and streets associated with the units.
REQUIREMENT: Improve the quality of life for military members and their families assigned to this installation by providing adequate housing and neighborhoods. Provide housing and neighborhoods that meet Air Force minimum standards and comply with the current Housing Community Plan.
CURRENT SITUATION: Housing units included in this project were constructed in 1975 under a low, constrained budget. These units presently are uninhabitable. Materials used in construction were of inferior quality, therefore, the units are suffering obsolescence and dilapidation. Existing units do not meet Air Force minimum space standards. Space deficiencies range from 100 to 200 square feet in

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

BOLLING AIR FORCE BASE WASHINGTON DISTRICT OF COLUMBIA

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE MILITARY FAMILY HOUSING (PHASE 4)	BXUR974005

various types of units. Floor layouts are dysfunctional, and do not allow maximum use of existing space. Family rooms were being used as family and secondary eating rooms. The units do not meet current fire safety and handicap laws and standards. Doors and windows are of the original construction and are obsolete. The windows are single pane, sliding glass windows and fall below current energy standards. Due to the high density of the housing area it doesn't lend itself to privacy, therefore fencing and landscaping is required to provide privacy in the rear yards. Carport structures are rotting and delapidated and are oriented in front of the housing units and block the view of the entrance. The lack of adequate outdoor storage has forced previous occupants to use the carports to store bikes, lawn furniture and other items which detracts from the already cluttered state. Common areas are deficient of ample play yards and other amenities to serve the housing population. Improper construction prepartion has allowed the concrete floors to shift and resulted in numerous water pipe breaks, not allowing doors and windows to close properly and water to leak into the insulation rendering it useless.
IMPACT IF NOT PROVIDED: Failure to replace these unhabitable units will continue to force Air Force personnel from living in a quality home that is affordable in the Washington DC area. Additionally, these units pose a direct fire and safety hazard to the adjancent housing areas that could result in loss of life. The Air Force is also in violation of Federal law not providing handicapped accessable units. If the current replacement program is not maintained at Bolling, the remaining units will soon be uninhabitable which impacts directly on safety, quality of life, government resources and inadvertently impacts mission readiness.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME BOLLING AIR FORCE BASE	b. LOCATION WASHINGTON, D.C.	
5. DATA AS OF 1993			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	5,294	3,887	353	9,534	5,294	3,869	371	9,534
7. PERMANENT PARTY PERSONNEL	5,294	3,887	353	9,534	5,294	3,869	371	9,534
8. GROSS FAMILY HOUSING REQUIREMENTS	4,192	2,725	56	6,973	4,147	2,686	59	6,892
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	1,570	1,044	15	2,629				
a. INVOLUNTARILY SEPARATED	29	23	0	52				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	1,541	1,021	15	2,577				
10. VOLUNTARY SEPARATIONS	79	100	2	181	79	101	2	182
11. EFFECTIVE HOUSING REQUIREMENTS	4,192	2,725	56	6,973	4,068	2,585	57	6,710
12. HOUSING ASSETS (a + b)	2,613	1,605	40	4,258	2,563	1,750	40	4,353
a. UNDER MILITARY CONTROL	295	1,085	15	1,395	394	1,382	33	1,809
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	190	785	15	990	191	766	33	990
(2) UNDER CONTRACT/APPROVED					98	316	0	414
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	2,423	820	25	3,268	2,274	668	7	2,949
(1) ACCEPTABLY HOUSED	2,353	796	24	3,173				
(2) ACCEPTABLE VACANT RENTAL	70	24	1	95				
13. EFFECTIVE HOUSING DEFICIT	1,579	1,120	16	2,715	1,505	835	17	2,357
14. PROPOSED PROJECT					0	40	0	40

15. REMARKS

DD FORM 1522, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
EGLIN AUXILIARY FIELD NO 9, FLORIDA	AIR FORCE SPECIAL OPERATIONS COMMAND	0.87

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1345	5844	3520		17		617	549	73	11,965
b. End FY 2001	1339	5841	3106		19		617	549	73	11,544

7. INVENTORY DATA ($000)

a. Total Acreage: (6,634)	
b. Inventory Total As Of: (30 SEP 95)	135,024
c. Authorization Not Yet In Inventory:	7,829
d. Authorization Requested In This Program:	249
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	143,102

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	FY70 APPROPRIATED FAMILY HSG	2,310 SF	249	JUN 95	JUL 96
		TOTAL:	249		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: HQ Air Force Special Operations Command; a special operations wing with AC-130/MC-130/MH-53/MH-60 special operations squadrons; Air Force Special Operations School; a special tactics group; Air Combat Command's command and control evaluation group; a RED HORSE squadron; and the Joint Warfare Center.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AUX FIELD 9, FLORIDA (HURLBURT FIELD)	CONSTRUCT FAMILY HOUSING, GOQ

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	711-142	FTEV974003	249

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
GENERAL OFFICERS QUARTERS	UN	1	120,125	120
SUPPORTING FACILITIES				105
SITE PREPARATION	LS			(19)
ROADS AND PAVING	LS			(12)
UTILITIES	LS			(13)
LANDSCAPING	LS			(14)
SPECIAL CONSTRUCTION FEATURES	LS			(24)
OTHER (SPECIFY)GARAGE AND STORAGE	LS			(23)
SUBTOTAL				225
CONTINGENCY (5%)				11
TOTAL CONTRACT COST				236
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				13
TOTAL REQUEST				249
AREA COST FACTOR .73				

10. Description of Proposed Construction: Construct one General Officer's Quarters. Includes site preparation, roads/paving, utilities, landscaping/arbor, seawall/marine structures, and construction of a single family home with double garage and storage. Provides normal amenities to include air-conditioning, exterior decks/patio, and screened porch with glazing.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
GOQ 4BR	214	.81	693	1	120,125
				1	120,125

11. REQUIREMENT: 3 SF ADEQUATE: 2 SF SUBSTANDARD: 1 SF

PROJECT: Construct one GOQ Unit (Current Mission)

REQUIREMENT: This project is required to solve a GOQ shortage as a result of a new general officer requirement. the project provides a new modern and space efficient home for the general officer. The unit will meet "whole house" standard.

CURRENT SITUATION: There is a requirement for 3 General Officers Quarters (GOQs) at Hurlburt Field. We currently have 2 adequate units, one assigned to the HQ AFSOC/CC, Special Command Position, (2,310 net SF authorization) and the other assigned to the AFSOC/CV (2,100 net SF authorization). The Installation Commander is occupying the third GOQ which is substandard due to the physical size of the unit. The Installation Commander and family are living in what was previously Senior Officers Quarters (SOQ) with a total net usable floor area of only 1,618 SF. The house was built in 1957 and designed to the architectural

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

EGLIN AUX FIELD 9, FLORIDA (HURLBURT FIELD)

4. PROJECT TITLE	5. PROJECT NUMBER
CONSTRUCT FAMILY HOUSING, GOQ	FTEV974003

standards of 37 years ago. It would be impractical and cost prohibitive to upgrade this unit to meet DOD adequacy standards of 2,310 net square feet for the installation commander position. The necessary new additions required would be incompatible with the structure design. These quarters do, however, meet the space adequacy standards for SOQ and are in good condition to once again serve this purpose. This project will solve the inadequate GOQ issue by the construction of a new unit and also eliminate the SOQ deficit by returning the existing unit back to SOQ use following project completion. The Housing Market Analysis, June 94, verified an overall deficit of 867 units, including the shortage of one SOQ. Therefore, there are no housing units available that could be converted to meet this GOQ requirement.

IMPACT IF NOT PROVIDED: The Installation Commander and his family will be forced to live in an inadequate home.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. Since this is a single unit project, there will be no increase in the student population or impact on the ability of the local school district to support base dependents. Requirements for anti-terrorism features and physical security protective measures received from Air Force Office of Special Investigations (AFOSI) will be provided to A&E contractor during initial design stages (funded with appropriated O&M funds).

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME Hurlburt Field	b. LOCATION Fort Walton, Florida	
5. DATA AS OF Jun 94			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	1,062	4,249	1,320	6,631	1,183	4,840	1,504	7,527
7. PERMANENT PARTY PERSONNEL	1,062	4,249	1,320	6,631	1,183	4,840	1,504	7,527
8. GROSS FAMILY HOUSING REQUIREMENTS	741	3,018	439	4,198	824	3,439	500	4,763
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS	0	0	0	0	0	0	0	0
11. EFFECTIVE HOUSING REQUIREMENTS	741	3,018	439	4,198	824	3,439	500	4,763
12. HOUSING ASSETS (a + b)	679	2,604	261	3,544	738	2,885	273	3,896
a. UNDER MILITARY CONTROL	68	864	99	1,031	68	864	99	1,031
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	68	864	99	1,031	68	864	99	1,031
(2) UNDER CONTRACT/APPROVED								
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	611	1,740	162	2,513	670	2,021	174	2,865
(1) ACCEPTABLY HOUSED	514	1,229	27	1,770				
(2) ACCEPTABLE VACANT RENTAL	97	511	135	743				
13. EFFECTIVE HOUSING DEFICIT	62	414	178	654	86	554	227	867
14. PROPOSED PROJECT					1	0	0	1

15. REMARKS

DD FORM 1523, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MACDILL AIR FORCE BASE, FLORIDA	AIR COMBAT COMMAND	0.88

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	538	2091	894				831	1282	213	5,849
b. End FY 2001	518	1940	843				685	1037	368	5,391

7. INVENTORY DATA ($000)

a. Total Acreage: (11,018)	
b. Inventory Total As Of: (30 SEP 95)	243,198
c. Authorization Not Yet In Inventory:	11,620
d. Authorization Requested In This Program:	8,822
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	263,640

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	REPLACE MILITARY FAMILY HOUSING (PHASE 1)	56 UN	8,822	TURN KEY	
		TOTAL:	8,822		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: An air base wing supporting Headquarters United States Central Command and Headquarters United States Special Operations Command; and Joint Communications Support Element.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MACDILL AIR FORCE BASE, FLORIDA	REPLACE MILITARY FAMILY HOUSING (PHASE 1)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	711-142	NVZR973703	8,822

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	56	55,032	3,082
SUPPORTING FACILITIES				4,882
SITE PREPARATION	LS			(1,577)
ROADS AND PAVING	LS			(113)
UTILITIES	LS			(108)
LANDSCAPING	LS			(113)
OTHER (SPECIFY)GARAGE/STORM/DEMO/LBP	LS			(2,971)
SUBTOTAL				7,964
CONTINGENCY (5%)				398
TOTAL CONTRACT COST				8,362
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				460
TOTAL REQUEST				8,822
AREA COST FACTOR .80				

10. Description of Proposed Construction: Replace 56 housing units. Includes demolition, site clearing, replacement/upgrade of utility systems and roads, and design and construction of duplex family units. Provides normal amenities to include appliances, garages, parking, air conditioning, patios and privacy fencing, neighborhood playgrounds, and recreation areaas. Includes asbestos and lead-based paint removal.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 2BR	88	.81	661	20	942,322
JNCO 3BR	111	.81	661	36	2,139,498
				56	3,081,820

11. REQUIREMENT: 2,901 UN ADEQUATE: 1,802 UN SUBSTANDARD: 782 UN
PROJECT: Replace Military Family Housing (Phase 2). (Current Mission)
REQUIREMENT: This project is required to provide modern and efficient replacement housing for military members and their dependents stationed at MacDill AFB. All units will meet "whole house" standards and are programmed in accordance with Phase "A"of the Housing Community Plan. Replacement housing will provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. This is the second of multiple phases to upgrade or replace 804 housing units--712 remain after completion of this phase. The replacement housing will provide a modern kitchen, living room, dining room and bath configuration, with ample interior and exterior storage and garages. Off-street parking will be provided for a second vehicle. The basic neighborhood support infrastructure will be upgraded to meet modern housing needs.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MACDILL AIR FORCE BASE, FLORIDA

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE MILITARY FAMILY HOUSING (PHASE 1)	NVZR973703

Neighborhood enhancements will include landscaping, playgrounds, and recreation areas. Climatic considerations require special construction measures to withstand severe storms (hurricanes) and tidal surges.

CURRENT SITUATION: This project replaces housing which is over 45 years old and is showing the effects of age and continuous heavy use. They have had no major upgrades since construction, and do not meet the needs of today's families, nor do they provide a modern home environment. Roofs, walls, foundations and exterior pavements require major repair or replacement due to the effects of age and the environment. Plumbing and electrical systems are antiquated and do not meet current standards for efficiency or safety. Housing interiors are generally inadequate by any modern criteria. Bedrooms are small and lack adequate closet space. Bathrooms are small, and fixtures are outdated and energy inefficient. Kitchens have inadequate storage and counter space, cabinets are old and unsightly, countertops and sinks are badly worn. Flooring throughout the house is outdated, and contains evidence of asbestos. Plumbing and electrical systems are outdated and require abnormal maintenance and repair. Electrical circuits do not meet National Electric Code requirements. Lighting systems throughout the houses are inefficient and do not meet modern needs. Housing density is excessive creating an undesirable living environment. 124 units will be demolished and replaced with 56 units to correct density problems.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to live in extremely outdated and unsatisfactory housing. This 45 year old housing will continue to deteriorate with age, resulting in increasing and unacceptable maintenance and repair costs, and extreme inconvenience to the occupants. Without this and subsequent phases of this initiative, repairs will continue in a costly, peicemeal fashion with little or no improvement in occupant quality of life. These deficiencies will continue to adversely affect the morale of all personnel assigned to the base. The current Housing Market Analysis shows a projected deficit of 317 units, thus adequate/affordable off-base housing is unavailable.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". Since this is replacement housing, there will be no increase in the student population or impact on the ability of the local school district to support base dependents. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing, and status quo operation. Based on the net present values and benefits of the respective alternatives, improvement was found to be the most cost effective over the life of the project. However, since revitalization exceeded 70% of the replacement value of the houses, replacement construction was selected. Improvement costs represent 83% of the replacement value. This project will be executed as a Request For Proposal.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME MacDill Air Force Base	b. LOCATION Hillsborough County Florida	
5. DATA AS OF Dec 94			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	995	2,235	346	3,576	1,005	2,161	319	3,485
7. PERMANENT PARTY PERSONNEL	995	2,235	346	3,576	1,005	2,161	319	3,485
8. GROSS FAMILY HOUSING REQUIREMENTS	681	1,525	110	2,316	688	1,479	101	2,268
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS								
11. EFFECTIVE HOUSING REQUIREMENTS	681	1,525	110	2,316	688	1,479	101	2,268
12. HOUSING ASSETS (a + b)	677	1,514	105	2,296	683	1,472	97	2,252
a. UNDER MILITARY CONTROL	130	661	13	804	130	661	13	804
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	130	661	13	804	130	661	13	804
(2) UNDER CONTRACT/APPROVED								
(3) VACANT								
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	547	853	92	1,492	553	810	84	1,448
(1) ACCEPTABLY HOUSED								
(2) ACCEPTABLE VACANT RENTAL								
13. EFFECTIVE HOUSING DEFICIT	4	11	5	20	4	8	4	16
14. PROPOSED PROJECT					0	56	0	56

15. REMARKS

DD FORM 1523, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PATRICK AIR FORCE BASE, FLORIDA	REPLACE HOUSING OFFICE FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	610-119	SXHT974005	821

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE HOUSING OFFICE FACILITIES	SM	474	1,184	561
SUPPORTING FACILITIES				180
UTILITIES	LS			(50)
SITE IMPROVEMENTS	LS			(50)
PAVEMENT	LS			(50)
DEMOLITION	LS			(30)
SUBTOTAL				741
CONTINGENCY (5%)				37
TOTAL CONTRACT COST				778
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				43
TOTAL REQUEST				821
AREA COST FACTOR 0.98				

10. Description of Proposed Construction: Construct a new facility consisting of concrete floor slab, masonry walls, tile roof, HVAC, fire protection system, pavement for access road, site improvements, including utilities for electrical, water, and sewage. Demolish building 1061.

11. REQUIREMENT: 5,100 SF ADEQUATE: 0 SUBSTANDARD: 3,769 SF

PROJECT: Construct a new 5100sf facility to replace Bldg 1061 (2169sf) and building 1175 (1600sf). Building 1061 will be demolished.

REQUIREMENT: New building will consist of concrete floor, masonry walls with exterior painted stucco finish, wood trusses, and concrete barrel roof tiles. Permanent facility will include admin office, conference room, breakroom, storage/computer room, main and staff entrance vestibules, toilet, and mechanical/electrical equipment rooms. All work shall conform to Patrick AFB Facilities Excellence Standards, Mil-HDBK 1190, NFPA codes, and the Uniform Federal Accessibility Handicapped Standards.

CURRENT SITUATION: Existing facilities, Bldg 1061 and Bldg 1175, are currently being used for housing management functions. Building 1061 is a condition Code 2 facility, constructed in 1953, to be demolished upon completing new Housing Management Facility. Building 1175 is a condition Code 2 facility, constructed in 1965, to be demolished upon completing a new Housing Furnishings Facility programmed in FY97. These facilities do not meet space requirements per Air Force Housing Support Facilities Guide for a base supporting over 1,600 housing units. Bldg 1061 was identified as unsatisfactory (Level I) in the Commanders' Facility Assessment program.

IMPACT IF NOT PROVIDED: Continue use of a degraded building which also does not meet the required space requirements by Air Force guidelines and

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

PATRICK AIR FORCE BASE, FLORIDA

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE HOUSING OFFICE FAC	SXHT974005

Facilities Excellence Standards.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PATRICK AIR FORCE BASE, FLORIDA	HOUSING MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	219-944	SXHT974006	853

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
HOUSING MAINTENANCE FACILITY	SM	589	1,002	590
SUPPORTING FACILITIES				180
UTILITIES	LS			(50)
SITE IMPROVEMENTS	LS			(50)
PAVEMENT	LS			(50)
DEMOLITION	LS			(30)
SUBTOTAL				770
CONTINGENCY (5%)				39
TOTAL CONTRACT COST				809
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				44
TOTAL REQUEST				853
AREA COST FACTOR 0.98				

10. Description of Proposed Construction: Construct a new facility consisting of concrete floor slab, masonry walls, tile roof, HVAC, fire protection system, pavement for access road, site improvements, including utilities for electrical, water, and sewage. Demolish Bldg 1173.

11. REQUIREMENT: 6,340 SF ADEQUATE: 0 SUBSTANDARD: 3,435 SF
PROJECT: Construct a new 6340sf facility to replace Bldg 1173 (2179sf) and Bldg 1176 (1256sf). Building 1173 will be demolished.
REQUIREMENT: New building will consist of concrete floor, masonry walls with exterior painted stucco finish, wood trusses, and concrete barrel roof tiles. Permanent facility will include admin office, work shop area, parts/supply, family self-help, storage area, entry vestibule, toilet, and mechanical/electrical equipment rooms. All work shall conform to Patrick AFB Facilities Excellence Standards, Mil-HDBK 1190, NFPA codes, and the Uniform Federal Accessibility Handicapped Standards.
CURRENT SITUATION: Existing facilities, Bldg 1173 and 1176, are currently being used for housing maintenance facility. Bldg 1173 is a condition Code 3 facility, constructed in 1953. Bldg 1176 is a condition Code 3 facility, constructed in 1959. Bldg 1176 is so badly delapidated that for safety reasons this building is being demolished now. A request for an interim portable facility will be requested to replace this facility until the new Housing Maintenance Facility is constructed. Bldg 1173 will be demolished upon completing the new Housing Maintenance Facility. These facilities do not meet space requirements per Air Force Housing Support Facilities Guide for a base supporting over 1,600 housing units. The two buildings were identified as unsatisfactory (Level I) in the Commanders' Facility Assessment program.
IMPACT IF NOT PROVIDED: Continue use of unsatisfactory buildings which

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
PATRICK AIR FORCE BASE, FLORIDA	
4. PROJECT TITLE	5. PROJECT NUMBER
HOUSING MAINTENANCE FACILITY	SXHT974006

also does not meet the requirements Space Command has placed on Housing Maintenance Contract to provide an effective management control, maintenance, and distribution of supplies. Contractor will continue to experience inefficient operations and poor utilization of space, thereby adding to the cost and slowing response to maintenance requirements. The existing facilities do not meet the required space requirements provided in Air Force guidelines nor the Patrick AFB Facilities Excellence Standards.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PATRICK AIR FORCE BASE, FLORIDA	HOUSING SUPPLY & STORAGE FCLTY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	442-769	SXHT974007	756

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FURNITURE MANAGMENT WAREHOUSE	SM	910	678	617
SUPPORTING FACILITIES				66
UTILITIES	LS			(20)
PAVEMENT	LS			(23)
DEMOLITION	LS			(23)
SUBTOTAL				683
CONTINGENCY (5%)				34
TOTAL CONTRACT COST				717
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				39
TOTAL REQUEST				756
AREA COST FACTOR 0.98				

10. Description of Proposed Construction: Construct a housing supply and storage facility consisting of concrete floor slab, masonry walls, tile roof, HVAC, fire protection system, access road and parking area, and utilities for electrical, water, and sewage. Demolish Facilities 1179 and 1175.

11. REQUIREMENT: 9,800 SF ADEQUATE: 0 SUBSTANDARD: 10,040 SF

PROJECT: Construct a new 9800 sf facility to replace a 4000 sf facility and 6040 sf of storage space located in portions of Buildings 710 and 1175. Demolish Facilities 1175 and 1179.

REQUIREMENT: New building will consist of concrete floor, masonry walls with exterior painted stucco finish, wood trusses, and concrete barrel roof tiles. Facility will house administrative offices, work shop, customer service and display area, toilet, and mechanical/electrical equipment rooms. All work shall conform to Patrick AFB Facilities Excellence Standards, Mil-HDBK 1190, NFPA codes, and the Uniform Federal Accessibility Handicapped Standards.

CURRENT SITUATION: The husing supply and storage facility supports over 1,600 military family housing units. This function is operated out of 3 facilities located in different areas of the base. Building 1175 is 31 year old facility located within 200 yards of the Atlantic Ocean. The facility is not designed as a warehouse and does not function well in this capacity. Building 1179 is a 29 year old metal building. The constant exposure to the highly corrosive element found in this area have deteriorated this facility beyond the point of economical repair. Building 710 is a 53 year old facility located in the main base area. The facility is in relatively good condition but does not meet mission requirements due to its location in reference to the housing management

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
PATRICK AIR FORCE BASE, FLORIDA	
4. PROJECT TITLE	5. PROJECT NUMBER
HOUSING SUPPLY & STORAGE FCLTY	SXHT974007

offices and housing areas. The use of this valuable warehouse space in the main base area could be better served by units operating in the main base area. Warehouse space is available but the quality of the space and efficiency of operating in multiple facilities are unacceptable. These facilities were evaluated as Level I (Unsatisfactory) in the FY95 Commanders' Facility Assessment.

IMPACT IF NOT PROVIDED: Continued use of these unsatisfactory facilities to support the military family housing community at Patrick AFB. The condition and distribution of these facilities will continue to increase operational cost. The facilities do not allow the Housing Maintenance Contractor to effectively meet contract requirements for management, control, and distribution of supplies. Facility 1179 will continue to deteriorate and will eventually become unusable.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
BARKSDALE AIR FORCE BASE, LOUISIANA	AIR COMBAT COMMAND	0.84

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	880	4999	1137				378	377	189	7,960
b. End FY 2001	901	4971	1128				378	377	189	7,944

7. INVENTORY DATA ($000)

a. Total Acreage: (22,361)	
b. Inventory Total As Of: (30 SEP 95)	236,084
c. Authorization Not Yet In Inventory:	50,680
d. Authorization Requested In This Program:	9,570
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	296,334

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	REPLACE MILITARY FAMILY HOUSING (PHASE 4)	80 UN	9,570	TURN KEY	
		TOTAL:	9,570		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Headquarters Eighth Air Force; a bomb wing with three B-52 squadrons, one of which is responsible for training B-52 aircrews; and an Air Force Reserve wing with an A/OA-10 squadron and a B-52 squadron.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BARKSDALE AIR FORCE BASE, LOUISIANA	REPLACE MILITARY FAMILY HOUSING (PHASE 4)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	711-142	AWUB977001	9,570

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FY70 APPROPRIATED FAMILY HSG	UN	80	51,822	4,146
SUPPORTING FACILITIES				4,493
SITE PREPARATION	LS			(1,746)
ROADS AND PAVING	LS			(364)
UTILITIES	LS			(263)
LANDSCAPING	LS			(278)
OTHER (SPECIFY) GARAGESAND STORAGE	LS			(1,842)
SUBTOTAL				8,639
CONTINGENCY (5%)				432
TOTAL CONTRACT COST				9,071
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				499
TOTAL REQUEST				9,570
AREA COST FACTOR .84				

10. Description of Proposed Construction: Design and construct 40 duplex Family Housing units with all necessary supporting facilities. Includes: site development, utilities, roads and parking, sidewalks and street lighting, garages with storage, patios, privacy fencing, air conditioning, appliances, exterior storage, recreation and play areas, tot lots, neighborhood improvements, landscaping, and all other necessary support.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 2BR	88	.86	661	69	3,451,689
JNCO 3BR	111	.86	661	11	694,090
				80	4,145,779

11. REQUIREMENT: 3,671 UN ADEQUATE: 2,022 UN SUBSTANDARD: 427 UN
PROJECT: Replace Military Family Housing (Phase 4). (Current Mission)
REQUIREMENT: This project is required to provide modern and efficient replacement housing for military members and their dependents stationed at Barksdale AFB. All units will meet "whole house" standards and are programmed in accordance with the Housing Community Plan. This is the third of multiple phases to provide adequate housing for base personnel. This housing will provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. The units will provide a modern kitchen, living room, dining room, and bath configuration, with ample interior and exterior storage and garages. Parking will be provided for a second vehicle and/or visitors. The neighborhood support infrastructure will be constructed to meet modern housing needs. Neighborhood enhancements will include landscaping,

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
BARKSDALE AIR FORCE BASE, LOUISIANA	
4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE MILITARY FAMILY HOUSING (PHASE 4)	AWUB977001

playgrounds, and recreation areas. This project is programmed in accordance with the Housing Community Plan.

CURRENT SITUATION: This initiative replaces housing units to partially satisfy a housing deficit created by the prior demolition (1989) of over 600 units declared uninhabitable due to condition. The result is a severe shortage of housing on the base. According to the most recent Housing Market Analysis, a substantial number of families are unsuitably housed in off-base accommodations. Investigations determined that these families either live in housing below DoD standards, or in housing meeting DoD standards BUT exceeding their maximum housing allowance. With construction of 262 units in prior phases, the base has a remaining deficit of 1200 units.

IMPACT IF NOT PROVIDED: There are no reasonable alternatives to living in substandard or expensive off-base housing if families wish to avoid lengthy involuntary separations pending assignment to base units. The base will continue to have a severe shortage of on-base housing which forces families to live elsewhere. The impact is major morale and/or financial problems for the affected families.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of construction, leasing, and status quo operation. Based on the net present values and benefits of the respective alternatives, construction was found to be the most cost effective over the life of the project. Since this is essentially replacement housing, and these families are already located in the community, there will be no increase in the student population. The local school authority concurs that no additional school construction will be required. This project will be executed as a Request For Proposal (RFP). To maximize opportunities for economy of scale, the project is included as an option for accomplishment with Phase 3.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT 34669	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION		
5. DATA AS OF Dec 95	a. NAME Barksdale Air Force Base	b. LOCATION Bossier City, Louisana	

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	933	3,616	1,243	5,792	879	3,574	1,196	5,649
7. PERMANENT PARTY PERSONNEL	933	3,616	1,243	5,792	879	3,574	1,196	5,649
8. GROSS FAMILY HOUSING REQUIREMENTS	727	2,363	245	3,335	685	2,338	238	3,261
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS	0	0	0	0	0	0	0	0
11. EFFECTIVE HOUSING REQUIREMENTS	727	2,363	245	3,335	685	2,338	238	3,261
12. HOUSING ASSETS (a + b)	653	1,929	223	2,805	599	1,788	157	2,544
a. UNDER MILITARY CONTROL	161	248	20	429	186	431	12	629
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	161	248	20	429	186	431	12	629
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	492	1,681	203	2,376	413	1,357	145	1,915
(1) ACCEPTABLY HOUSED								
(2) ACCEPTABLE VACANT RENTAL								
13. EFFECTIVE HOUSING DEFICIT	74	434	22	530	86	550	81	717
14. PROPOSED PROJECT					0	80	0	80

15. REMARKS

DD FORM 1533, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
WHITEMAN AIR FORCE BASE, MISSOURI	AIR COMBAT COMMAND	1.05

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	442	3002	671				9	33	168	4,325
b. End FY 2001	306	2495	587				29	33	168	3,618

7. INVENTORY DATA ($000)

a. Total Acreage: (4,958)	
b. Inventory Total As Of: (30 SEP 95)	562,244
c. Authorization Not Yet In Inventory:	118,028
d. Authorization Requested In This Program:	9,600
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	689,872

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	CONSTRUCT MILITARY FAMILY HOUSING (PHASE 2)	68 UN	9,600	TURN KEY	
		TOTAL:	9,600		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A bomb wing with one squadron of B-2 aircraft; an Air Force Space Command missile wing consisting of one Minuteman II intercontinental ballistic missile squadron (scheduled to inactive by FY 96/1) with HH-1 aircraft; and an Air Force Reserve fighter wing with one A/AO-10 squadron.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WHITEMAN AIR FORCE BASE, MISSOURI	CONSTRUCT MILITARY FAMILY HOUSING (PHASE 2)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	711-142	YWHG979400	9,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSTRUCT MILITARY FAMILY HOUSING-PH 2	UN	68	66,785	4,541
SUPPORTING FACILITIES				4,125
GARAGE/STORAGE/PATIO	LS			(1,528)
SITE PREPARATION	LS			(1,960)
ROADS AND PAVING	LS			(136)
UTILITIES	LS			(130)
LANDSCAPING	LS			(121)
LAND ACQUISTION	LS			(250)
SUBTOTAL				8,666
CONTINGENCY (5%)				433
TOTAL CONTRACT COST				9,099
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				500
TOTAL REQUEST				9,600
AREA COST FACTOR 1.05				

10. Description of Proposed Construction: Design and construct 68 single or duplex family housing units with all necessary support. Includes: site development, utilities, roads, parking, sidewalks, street lighting, garages, storage, patios, privacy fencing, air conditioning, appliances, recreation and play areas, tot lots, neighborhood improvements, landscaping, and land acquisition for 76 units in this project.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 2BR	88	1.07	661	49	3,049,748
JNCO 3BR	111	1.07	661	19	1,491,632
				68	4,541,380

11. REQUIREMENT: 3,347 UN ADEQUATE: 1,829 UN SUBSTANDARD: 991 UN
PROJECT: Construct Military Family Housing (Phase 2). (New Mission)
REQUIREMENT: This project is required to provide modern and efficient housing for military members and their dependents stationed at Whiteman AFB. All units will meet "whole house" standards and are programmed in accordance with the Housing Community Plan. This is the second of multiple phases to provide adequate housing for base personnel. This housing will provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. The units will provide a modern kitchen, living room, dining room, and bath configuration, with ample interior and exterior storage and garages. Parking will be provided for a second vehicle and/or visitors. The neighborhood support infrastructure will be constructed to meet modern housing needs. Neighborhood enhancements will include landscaping, playgrounds, and

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
WHITEMAN AIR FORCE BASE, MISSOURI	
4. PROJECT TITLE	5. PROJECT NUMBER
CONSTRUCT MILITARY FAMILY HOUSING (PHASE 2)	YWHG979400

recreation areas. Additional land (75 acres) is required to support this project programmed in conjunction with a previous year construction project; the land parcel is located adjacent to the existing housing area.
CURRENT SITUATION: The rural community surrounding Whiteman AFB does not have sufficient, adequate housing assets to support existing requirements. The latest Housing Market indicates a deficit (after completion of phase 1 in FY96) of 523 housing units. The deficit is significant for Junior NCO grades. These are the families who can least afford to live off-base. Off-base housing is very difficult to find, and expensive. There is no unemcumbered land available to build these units on base, therefore, land acquisition is required.
IMPACT IF NOT PROVIDED: There are no reasonable alternatives to living in substandard or expensive off-base housing if families wish to avoid lengthy involuntary separations pending assignment to base units. The base will continue to have a severe shortage of on-base housing which forces families to live elsewhere. The impact is major morale and/or financial problems for the affected families.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". An economic analysis has been prepared comparing the alternatives of construction, leasing, and status quo operation. Based on the net present values and benefits of the respective alternatives, construction was found to be the most cost effective over the life of the project. The local school authority will be contacted to determine its capabiliity to accept the increase in student population generated by this project. This project will be executed as a Request For Proposal (RFP). To maximize opportunities for economy of scale, the RFP may include this project for accomplishment with Phase 1 in the FY96 program, including land acquistion as an option with Phase 1.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME Whiteman Air Force Base	b. LOCATION Knob Noster, Missouri	
5. DATA AS OF Dec 94			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	539	2,399	758	3,696	360	1,953	644	2,957
7. PERMANENT PARTY PERSONNEL	539	2,399	758	3,696	360	1,953	644	2,957
8. GROSS FAMILY HOUSING REQUIREMENTS	416	1,766	216	2,398	292	1,438	183	1,913
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS	0	0	0	0	0	0	0	0
11. EFFECTIVE HOUSING REQUIREMENTS	416	1,766	216	2,398	292	1,438	183	1,913
12. HOUSING ASSETS (a + b)	385	1,599	159	2,143	275	1,179	109	1,563
a. UNDER MILITARY CONTROL	199	706	84	989	199	698	92	989
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	199	706	84	989	199	698	92	989
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	186	893	75	1,154	76	481	17	574
(1) ACCEPTABLY HOUSED								
(2) ACCEPTABLE VACANT RENTAL								
13. EFFECTIVE HOUSING DEFICIT	31	167	57	255	17	259	74	350
14. PROPOSED PROJECT					0	68	0	68

15. REMARKS

DD FORM 1523, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	AIR MOBILITY COMMAND	0.98

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	712	3927	396				1	2	85	5,123
b. End FY 2001	400	2628	371				1	2	85	3,487

7. INVENTORY DATA ($000)

a. Total Acreage: (5,422)	
b. Inventory Total As Of: (30 SEP 95)	324,600
c. Authorization Not Yet In Inventory:	12,900
d. Authorization Requested In This Program:	7,784
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	8,030
g. Remaining Deficiency:	0
h. Grand Total:	353,314

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	REPLACE FAMILY HOUSING	66 UN	7,784	TURN KEY	
		TOTAL:	7,784		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

711-142	REPLACE FAMILY HOUSING	64 UN	8,030	TURN KEY

10. Mission or Major Functions: An air refueling wing with four KC-135 squadrons and an Air Force Space Command missile group with three Minuteman III intercontinental ballistic missile squadrons with HH-1 helicopters which will be inactivated as a result of the 1995 Defense Base Closure and Realignment Commission's recommendation.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	REPLACE FAMILY HOUSING, PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	711-142	JFSD974000	7,784

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	66	87,569	5,780
SUPPORTING FACILITIES				1,213
SITE PREPARATION	LS			(769)
RECREATION	LS			(157)
DEMOLITION/ASBESTOS & LBP ABATEMENT	LS			(288)
SUBTOTAL				6,993
CONTINGENCY (5%)				350
TOTAL CONTRACT COST				7,343
SUPERVISION, INSPECTION AND OVERHEAD (6%)				441
TOTAL REQUEST				7,784
AREA COST FACTOR .98				

10. Description of Proposed Construction: Replace 66 housing units. Includes site preparation, utilities, roads, landscaping, neighborhood recreation areas. Amenities include heating, air-conditioning, carpeting, garages, appliances, patios, and privacy fencing. Includes demolition of existing units, asbestos and lead-based paint removal.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 3BR	138	.96	661	66	5,779,572
				66	5,779,572

11. REQUIREMENT: 2,271 UN ADEQUATE: 1 UN SUBSTANDARD: 2,270 UN
PROJECT: Replace family housing units (Phase 2). (Current Mission)
REQUIREMENT: Project will provide modern and efficient housing for military members and their families assigned at Grand Forks AFB. All units will meet "whole house/neighborhood" standards and provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. Project is programmed in accordance with the Housing Community Plan. Project adds (new) 300 NSF authorized for recreation space at northern tier bases.
CURRENT SITUATION: This project replaces semi-permanent relocatable trailers/modular homes constructed in 1966. These 29 year old units were built to meet trailer house (temporary facilities) standards, not permanent housing standards, and they are nine years beyond their expected life. Due to the severe climate in North Dakota, the life expectancy of these units is considerablely shorter than 20 years. The foundations do not adequately support the temporary structures. The foundation walls

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE FAMILY HOUSING, PHASE 2	JFSD974000

move, since they do not reach the frost line; resulting in cracked walls and exterior doors that do not seal. The size and strength of the structural members are 2x3 construction; not the standard 2x4 permanent construction members. The end result is the unit lacks structural integrity for wind and snow load; can never reach the approved design for insulation properties and energy efficiency for a northern climate base. No amount of improvement work can bring these units up to "whole house/neighborhood" standards, and the structures show the effects of harsh winters and heavy use. Plumbing and electrical systems are in poor condition and very difficult to repair due to the unique construction techniques used on these temporary relocatable units. Water supply lines frequently freeze up due to inadequate insulation. Gound Fault Interruptor Circuit protection, and outlets lack grounding protection. Lighting systems are inefficient and require replacement. Air conditioning and heating systems require upgrade. The units have no patio or backyard privacy. Housing lacks additional 300 net square feet for indoor recreation space authorized at northern tier bases.

IMPACT IF NOT PROVIDED: Air Force members and families will continue to be inadequately housed. Low morale and retention problems can be expected since suitable, affordable off-base housing is not available. The most recent Housing Market Analysis shows an off-base deficit of 41 units. Units will continue to deteriorate resulting in escalating operations, maintenance and repair costs to the Government. Some of the units will become non-repairable which results in more Air Force members not being able to find adequate housing. Even with the FY95 base closure and realignment, we still need to revitalize the remaining required housing units.

ADDITIONAL: Higher supervision, inspection and overhead (SIOH) rate of 6 percent reflects that Army Corps of Engineers is the construction agent.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION		
5. DATA AS OF Apr 95	a. NAME Grand Forks Air Force Base	b. LOCATION Grand Forks County, North Dokota	

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	713	2,873	998	4,584	718	3,800	145	4,663
7. PERMANENT PARTY PERSONNEL	713	2,873	998	4,584	718	3,800	145	4,663
8. GROSS FAMILY HOUSING REQUIREMENTS	444	2,047	286	2,777	447	2,087	290	2,824
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS								
11. EFFECTIVE HOUSING REQUIREMENTS	444	2,047	286	2,777	447	2,087	290	2,824
12. HOUSING ASSETS (a + b)	508	1,987	235	2,730	486	2,011	286	2,783
a. UNDER MILITARY CONTROL	477	1,682	112	2,271	477	1,682	112	2,271
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	477	1,682	112	2,271	477	1,682	112	2,271
(2) UNDER CONTRACT/APPROVED								
(3) VACANT								
(4) INACTIVE								
b. PRIVATE HOUSING	31	305	123	459	9	329	174	512
(1) ACCEPTABLY HOUSED								
(2) ACCEPTABLE VACANT RENTAL								
13. EFFECTIVE HOUSING DEFICIT	(64)	60	51	47	(39)	76	4	41
14. PROPOSED PROJECT					0	66	0	66

15. REMARKS

DD FORM 1523, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
KIRTLAND AIR FORCE BASE, NEW MEXICO	AIR FORCE MATERIEL COMMAND	1.02

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1358	2937	2588		18		135	151	914	10,101
b. End FY 2001	1375	3014	2586		18		135	151	914	10,193

7. INVENTORY DATA ($000)

a. Total Acreage: (44,025)	
b. Inventory Total As Of: (30 SEP 95)	447,941
c. Authorization Not Yet In Inventory:	18,700
d. Authorization Requested In This Program:	5,450
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	472,091

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	REPLACE FAMILY HOUSING, PHASE 3	50 UN	5,450	TURN KEY	
		TOTAL:	5,450		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Phillips Laboratory; the Air Force Operational Test and Evaluation Center; an Air Education and Training Command special operations wing with three flying training squadrons operating MH-53, TH-53, UH-1, MH-60, MC-130 and HC 130 aircraft; an air base wing; Air Force Security Police Agency; and an Air National Guard fighter group with one F-16 squadron.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE, NEW MEXICO	REPLACE FAMILY HOUSING, PHASE 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	711-142	MHMV974001	5,450

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	50	70,997	3,550
SUPPORTING FACILITIES				1,370
SITE PREPARATION	LS			(123)
UTILITIES	LS			(50)
LANDSCAPING	LS			(42)
DEMOLITION AND ENVIRONMENTAL	LS			(1,155)
SUBTOTAL				4,920
CONTINGENCY (5%)				246
TOTAL CONTRACT COST				5,166
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				284
TOTAL REQUEST				5,450
AREA COST FACTOR 1.02				

10. Description of Proposed Construction: Replace 50 CGO family housing units. Project consists of demolition of existing housing, asbestos and lead-based paint removal, and construction of replacement units with associated single car garages. Provide patios with privacy fences, storage areas, and trash can enclosures. Site preparation support includes utility repair and landscaping.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
CGO 2BR	88	1.03	661	28	1,677,565
CGO 3BR	125	1.03	661	22	1,872,283
				50	3,549,848

11. REQUIREMENT: 2,978 UN ADEQUATE: 1,190 UN SUBSTANDARD: 1,631 UN
PROJECT: Replace 50 CGO family housing units, Phase 3. (Current Mission)
REQUIREMENT: This project is required to provide modern and efficient replacement housing for military members and their dependents. All units will meet "whole house" standards and are programmed in accordance with Phase D of the Housing Community Plan. Replacement housing will provide a safe, appealing living environment comparable to that found in the civilian community. This is the third of multiple phases to provide adequate housing for base personnel. Of the 272 units to be replaced in this multi-phase initiative, 212 are completed or included in prior programs, and ten units will follow in the final phase to complete the Pershing Park housing area.
CURRENT SITUATION: These units were constructed in 1949 and have received only routine maintenance and repair since construction. These units are

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
KIRTLAND AIR FORCE BASE, NEW MEXICO	
4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE FAMILY HOUSING, PHASE 3	MHMV974001

undersized, energy inefficient, and would require a complete floor plan change to meet modern day standards. The fixtures in the bathrooms and kitchens are no longer reparable and must be replaced. The units lack common features found in homes off-base such as family rooms and master baths. The flat roofs require frequent emergency stop-gap maintenance. Asbestos is present in the flooring, insulation, interior walls, and roofing of each of these units. Lead-based paint is present on both the interior and exterior of the units. The neighborhood is too dense, leaving precious little privacy for families. These units have outlived their useful life; replacement is the most logical method to provide acceptable housing for these company grade officer members and their families.

IMPACT IF NOT PROVIDED: Major morale problems will result if this replacement initiative is not supported. Some people will continue to occupy inadequate housing while neighbors and friends are in new, replaced units. Asbestos and lead-based paint will remain in the units, possibly exposing people to a known dangerous substance. The housing will continue to be occupied until it becomes uninhabitable because adequate, affordable housing is not available. Maintenance of these units will be costly due to the deteriorating building systems and inadequate energy conservation design.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, replacement construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". Since this is replacement housing, there will be no increase in the student population or impact on the ability of the local school district to support base dependents.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME KIRTLAND AIR FORCE BASE	b. LOCATION ALBUQUERQUE, NEW MEXICO	
5. DATA AS OF 1993			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	1,186	2,588	588	4,362	1,327	2,289	520	4,136
7. PERMANENT PARTY PERSONNEL	1,186	2,588	588	4,362	1,327	2,289	520	4,136
8. GROSS FAMILY HOUSING REQUIREMENTS	962	2,041	185	3,188	1,071	1,794	162	3,027
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	151	125	8	284				
a. INVOLUNTARILY SEPARATED	5	14	1	20				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	146	111	7	264				
10. VOLUNTARY SEPARATIONS	4	46	4	54	6	40	3	49
11. EFFECTIVE HOUSING REQUIREMENTS	962	2,041	185	3,188	1,065	1,754	159	2,978
12. HOUSING ASSETS (a + b)	870	1,906	176	2,952	970	1,702	159	2,831
a. UNDER MILITARY CONTROL	354	1,610	157	2,121	354	1,610	157	2,121
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	354	1,610	157	2,121	354	1,610	157	2,121
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	516	296	19	831	616	92	2	710
(1) ACCEPTABLY HOUSED	453	260	16	729				
(2) ACCEPTABLE VACANT RENTAL	63	36	3	102				
13. EFFECTIVE HOUSING DEFICIT	92	135	9	236	95	52	0	147
14. PROPOSED PROJECT					50	0	0	50

15. REMARKS

DD FORM 1522, MAY 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MINOT AIR FORCE BASE, NORTH DAKOTA	AIR COMBAT COMMAND	1.10

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	725	4455	549				3	5	70	5,807
b. End FY 2001	720	4432	554				3	5	70	5,784

7. INVENTORY DATA ($000)

a. Total Acreage: (5,383)	
b. Inventory Total As Of: (30 SEP 95)	300,655
c. Authorization Not Yet In Inventory:	11,250
d. Authorization Requested In This Program:	8,740
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	320,645

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	REPLACE MILITARY FAMILY HOUSING (PHASE 3)	46 UN	8,740	TURN KEY	
		TOTAL:	8,740		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A bomb wing with one B-52H squadron and an Air Force Space Command missile group with three Minuteman III intercontinental ballistic missile squadrons and HH-1H aircraft, convertingto UH-1Ns in FY 96/4.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MINOT AIR FORCE BASE, NORTH DAKOTA	REPLACE MILITARY FAMILY HOUSING (PHASE 3)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	711-142	QJVF979001	8,740

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE MILITARY FAMILY HOUSING (PH 3)	UN	46	113,055	5,201
SUPPORTING FACILITIES				2,689
SITE PREPARATION	LS			(932)
ROADS AND PAVING	LS			(124)
UTILITIES	LS			(98)
LANDSCAPING	LS			(97)
GARAGES	LS			(995)
DEMOLITION AND ASBESTOS/LBP REMOVAL	LS			(443)
SUBTOTAL				7,890
CONTINGENCY (5%)				395
TOTAL CONTRACT COST				8,285
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				456
TOTAL REQUEST				8,740
AREA COST FACTOR 1.10				

10. Description of Proposed Construction: Replace 46 housing units. Includes demolition, site clearing, replacement/upgrade of utility systems and roads, and design and construction of duplex family units. Provides normal amenities to include appliances, garages, parking, air conditioning, patios and privacy fencing, neighborhood playgrounds, and recreation areaas. Includes asbestos and lead-based paint removal.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
SNCO 3BR	153	1.11	661	41	4,602,563
SNCO 4BR	163	1.11	661	5	597,974
				46	5,200,537

11. REQUIREMENT: 2,799 UN ADEQUATE: 430 UN SUBSTANDARD: 2,349 UN
PROJECT: Replace Military Family Housing (Phase 3). (Current Mission)
REQUIREMENT: This project is required to provide modern and efficient replacement housing for military members and their dependents stationed at Minot AFB. All units will meet "whole house" standards and are programmed in accordance with Phases "A" & "B" of the Housing Community Plan. Replacement housing will provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. This is the third of multiple phases to upgrade or replace 2,431 housing units in this initiative. 2,261 units remain upon completion of this phase. The replacement housing will provide a modern kitchen, living room, dining room and bath configuration, with ample interior and exterior storage and garages. Off-street parking will be provided for a second vehicle. An additional 300 SF of living area will be provided for a recreation room.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MINOT AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE MILITARY FAMILY HOUSING (PHASE 3)	QJVF979001

The basic neighborhood support infrastructure will be upgraded to meet modern housing needs. Neighborhood enhancements will include landscaping, playgrounds, and recreation areas.

CURRENT SITUATION: This project replaces housing which is over 33 years old and is showing the effects of age and continuous heavy use. They have had no major upgrades since construction, and do not meet the needs of today's families, nor do they provide a modern home environment. Plumbing and electrical systems are antiquated and do not meet current standards for efficiency or safety. Housing interiors are generally inadequate by any modern criteria. Bedrooms are small and lack adequate closet space. Bathrooms are small, and fixtures are outdated and energy inefficient. Kitchens have inadequate storage and counter space, cabinets are old and unsightly, and countertops and sinks are badly worn. Flooring throughout the house is outdated, and contains evidence of asbestos. Plumbing and electrical systems are outdated and require abnormal maintenance and repair. Electrical circuits do not meet National Electric Code requirements. Lighting systems throughout the houses are inefficient and do not meet modern needs. No air conditioning is provided, and heating systems require replacement.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to live in extremely outdated and unsatisfactory housing. This 33 year old housing will continue to deteriorate with age, resulting in increasing and unacceptable maintenance and repair costs, and extreme inconvenience to the occupants. Without this and subsequent phases of this initiative, repairs will continue in a costly, piecemeal fashion with little or no improvement in occupant quality of life. These deficiencies will continue to adversely affect the morale of all personnel assigned to the base. The current Housing Market Analysis shows a projected deficit of 20 units, thus adequate/affordable off-base housing is unavailable.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". Since this is replacement housing, there will be no increase in the student population or impact on the ability of the local school district to support base dependents. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing, and status quo operation. Based on the net present values and benefits of the respective alternatives, replacement was found to be the most cost effective over the life of the project. However, since revitalization exceeded 70% of the replacement value of the houses, replacement construction was selected. Improvement costs represent 71% of the replacement value. This project will be executed as a Request For Proposal.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION		
5. DATA AS OF Apr 95	a. NAME Minot Air Force Base	b. LOCATION Minot North Dakota	

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (e)	E9 -E4 (f)	E3 - E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	721	3,132	1,318	5,171	721	3,126	1,284	5,131
7. PERMANENT PARTY PERSONNEL	721	3,132	1,318	5,171	721	3,126	1,284	5,131
8. GROSS FAMILY HOUSING REQUIREMENTS	505	2,364	388	3,257	503	2,343	376	3,222
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS	0	0	0	0	0	0	0	0
11. EFFECTIVE HOUSING REQUIREMENTS	505	2,364	388	3,257	503	2,343	376	3,222
12. HOUSING ASSETS (a + b)	500	2,230	378	3,108	499	2,212	366	3,077
a. UNDER MILITARY CONTROL	443	1,709	285	2,437	455	1,712	280	2,447
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	443	1,709	285	2,437	455	1,712	280	2,447
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	57	521	93	671	44	500	86	630
(1) ACCEPTABLY HOUSED	45	239	4	288				
(2) ACCEPTABLE VACANT RENTAL	12	282	89	383				
13. EFFECTIVE HOUSING DEFICIT	5	134	10	149	4	131	10	145
14. PROPOSED PROJECT					0	46	0	46

15. REMARKS

DD FORM 1523, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
LACKLAND AIR FORCE BASE, TEXAS	AIR EDUCATION AND TRAINING COMMAND	0.87

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1819	4724	2693	66	5531		62	1756		16,651
b. End FY 2001	1829	4697	2688	64	6213		62	1756		17,309

7. INVENTORY DATA ($000)

a. Total Acreage: (2,753)	
b. Inventory Total As Of: (30 SEP 95)	417,260
c. Authorization Not Yet In Inventory:	42,243
d. Authorization Requested In This Program:	7,300
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	466,803

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
219-944	REPLACE FAMILY HOUSING MAINTENANCE FACILITY	3,258 SF	350	SEP 95	MAY 96
610-119	REPLACE FAMILY HOUSING MGT OFFICE	3,251 SF	450	SEP 95	MAY 96
711-142	REPLACE MILITARY FAMILY HOUSING	50 UN	6,500	JAN 95	APR 96
		TOTAL:	7,300		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Training wing responsible for Basic Military Training School and security police, transportation, cryptographic maintenance, recruiting, and social actions courses; Defense Language Institute; English Language Center; Inter-American Air Forces Academy; and a major Air Force medical center.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE TEXAS	REPLACE MILITARY FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	711-142	MPLS974009	6,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE MILITARY FAMILY HOUSING	UN	50	66,432	3,322
SUPPORTING FACILITIES				2,546
SITE PREPARATION	LS			(203)
ROADS AND PAVING	LS			(420)
UTILITIES	LS			(535)
LANDSCAPING	LS			(165)
RECREATION	LS			(130)
ADDED GROSS AREAS	LS			(477)
DEMOLITION	LS			(101)
GARAGES/STORAGE	LS			(515)
SUBTOTAL				5,868
CONTINGENCY (5%)				293
TOTAL CONTRACT COST				6,161
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				339
TOTAL REQUEST				6,500
AREA COST FACTOR .87				

10. Description of Proposed Construction: Replace 50 housing units. Includes site clearing, new utility systems and roads, and construction of housing units. Amenities include air conditioning, garages, patios, storage, privacy fencing, playgrounds, recreation areas, landscaping and neighborhood improvements. Includes demolition, asbestos and lead-based paint removal,

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 3BR	111	.87	661	36	2,297,980
JNCO 4BR	125	.87	661	11	790,721
SNCO 4BR	135	.87	661	3	232,903
				50	3,321,604

11. REQUIREMENT: 3,752 UN ADEQUATE: 2,448 UN SUBSTANDARD: 1,304 UN
PROJECT: Replace Military Family Housing.(Current Mission)
REQUIREMENT: This work is required to replace aged housing which is inefficently designed, inadequately appointed, improperly sited, obsolete in its configuration and engineering systems, and generally not useful. All units will meet "whole house" standards and are programmed in accordance with the Housing Community Plan. Replacement housing will provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. This is the first of multiple phases to provide adequate housing for base personnel. The replacement housing will provide a modern kitchen, living room, family room, bedroom and bath configuration, with ample storage and a single car garage. Neighborhood enhancements will include landscaping, playgrounds, and park areas.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE MILITARY FAMILY HOUSING	MPLS974009

CURRENT SITUATION: This project replaces 50 housing units which were constructed in the early 1950s. These 45-year-old houses are showing the effects of age and continuous heavy use. They have had no major upgrades since construction, and do not meet the needs of today's families, nor do they provide a modern home environment. Roofs, walls, foundations and exterior pavements require major repair or replacement due to the effects of age and the enviornment. Roof structures show signs of rot; leaks have made already inadequate insulation even less effective. Foundation and pavements are showing signs of failing due to settlement. Plumbing and electrical systems do not meet current standards for efficiency and safety. Housng interiors are generally inadequate when compared to modern standards. Bedrooms are small and lack adequate closet space. Bathrooms are small, and fixtures are outdated and energy inefficient. Kitchens have inadequate storage and counter space, cabinets are old and unsightly, and countertops and sinks are badly worn. Flooring throughout the house is outdated, and contains evidence of asbestos. Lighting systems throughout the houses are inefficient and require replacement. Heating and air conditioning systems require upgrade and replacement.

IMPACT IF NOT PROVIDED: Major morale problems will result if this replacement initiative is not supported. AF personnel will continue to occupy substandard housing. The housing will continue to be occupied until it becomes totally uninhabitable because adequate, affordable, off-base housing is not available. The current Housing Market Analysis shows an on-base housing deficit of 580 units. Without this initiative, costly piecemeal repairs will be necessary, with no improvement in living quality.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide." An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. The improvement cost represents 90% of replacement values. There will be no increase in student population nor impact on the ability of the local school district to support base dependents on this housing replacement project.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (YYMMDD)	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME Lackland Air Force Base	b. LOCATION San Antonio, Texas	
5. DATA AS OF May 94			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT OFFICER (a)	CURRENT E9-E4 (b)	CURRENT E3 - E1 (c)	CURRENT TOTAL (d)	PROJECTED OFFICER (e)	PROJECTED E9 -E4 (f)	PROJECTED E3 - E1 (g)	PROJECTED TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	2,381	4,816	3,580	10,777	2,512	5,078	5,158	12,748
7. PERMANENT PARTY PERSONNEL	1,835	4,048	3,284	9,167	1,966	4,310	4,862	11,138
8. GROSS FAMILY HOUSING REQUIREMENTS	1,076	1,977	463	3,516	1,155	2,103	494	1,913
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	0	0	0	0				
a. INVOLUNTARILY SEPARATED	0	0	0	0				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	0	0	0	0				
10. VOLUNTARY SEPARATIONS	0	0	0	0	0	0	0	0
11. EFFECTIVE HOUSING REQUIREMENTS	1,076	1,977	463	3,516	1,155	2,103	494	3,752
12. HOUSING ASSETS (a + b)	925	1,723	334	2,982	999	1,814	359	3,172
a. UNDER MILITARY CONTROL	103	621	0	724	103	621	0	724
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	103	621	0	724	103	621	0	724
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	822	1,102	334	2,258	896	1,193	359	2,448
(1) ACCEPTABLY HOUSED	822	1,102	334	2,258				
(2) ACCEPTABLE VACANT RENTAL	0	0	0	0				
13. EFFECTIVE HOUSING DEFICIT	151	254	129	534	156	289	135	580
14. PROPOSED PROJECT					0	50	0	50

15. REMARKS

DD FORM 1523, NOV 90

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	REPLACE FAMILY HOUSING MGT OFFICE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	610-119	MPLS964004	450

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING MGT OFFICE	SM	302	970	293
SUPPORTING FACILITIES				114
UTILITIES	LS			(60)
SITE IMPROVEMENTS	LS			(20)
PAVEMENTS	LS			(24)
LANDSCAPING	LS			(10)
SUBTOTAL				407
CONTINGENCY (5%)				20
TOTAL CONTRACT COST				427
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				23
TOTAL REQUEST				450
AREA COST FACTOR 0.87				

10. Description of Proposed Construction: All site preparation, drainage improvements, concrete slab foundation, brick veneer exterior surfaces over concrete block, standing seam metal roof, and decorative interior finishings. Project provides offices, restrooms, counseling and meeting rooms, customer waiting area, breakroom, and interior and exterior child play areas. Includes all utilities, parking, and landscaping.
Air Conditioning: 10 KW.

11. REQUIREMENT: 3,251 SF ADEQUATE: 0 SUBSTANDARD: 3,792 SF
PROJECT: Family Housing Management Facility. (Current Mission)
REQUIREMENT: An adequate facility is required for managing base family housing assets, for assisting all arriving personnel in finding adequate on or off base housing, and for managing furnishings for authorized base personnel. The facility must be located for convenient access by arriving personnel and those already assigned to base housing. It must be handicapped accessible and have adequate parking. The facility must provide office space, a conference room, private counseling rooms, administrative space, a reception and customer waiting area, a customer referral area with multiple telephones, storage space for equipment and publications, and interior and exterior play areas for children of customers. Exterior play areas must be provided with recreation equipment and be fenced for security. The facility exterior requires landscaping to enhance customer appeal.
CURRENT SITUATION: The current family housing office is located in a facility built in 1943. The structure is semi-permanent type construction that has long exceeded its life expectancy. The facility is not prominently or conveniently located. The structural condition of the

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION
LACKLAND AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE FAMILY HOUSING MGT OFFICE	MPLS964004

facility make upgrading the existing structure uneconomical. There are no interior or exterior play areas for children to use while parents are being counseled on housing opportunities/requirements.

IMPACT IF NOT PROVIDED: Unusual and costly resourse commitment will be necessary to upgrade the existing facility to meet the requirement. Major repairs and upgrades are not an option due to the age and extensive investment required. Customers will continue to be served from facilities built during World War II that detracts from the first impression of new arrivals.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	REPLACE FAMILY HOUSING MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	219-944	MPLS964006	350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING MAINTENANCE FACILITY	SM	303	644	195
SUPPORTING FACILITIES				121
UTILITIES	LS			(71)
SITE IMPROVEMENTS	LS			(30)
PAVEMENTS	LS			(20)
SUBTOTAL				316
CONTINGENCY (5%)				16
TOTAL CONTRACT COST				332
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				18
TOTAL REQUEST				350
AREA COST FACTOR 0.87				

10. Description of Proposed Construction: All site preparation, drainage improvements, concrete slab foundation, steel frame building with steel skinned exterior surfaces. Project provides administrative office space, work shops, parts/supply storage, customer waiting area, conference/break room, miscellaneous supply storage, restrooms and mechanical room. Includes all parking, utilities, and landscaping.
Air Conditioning: 10 KW.

11. REQUIREMENT: 3,258 SF ADEQUATE: 0 SUBSTANDARD: 9,628 SF
PROJECT: Construct a Military Family Housing Maintenance Facility. (Current Mission)
REQUIREMENT: An adequate facility is required for the MFH maintenance contractor to stage and conduct maintenance on all family housing units on Lackland AFB. The facility must be located near the majority of family housing units yet visually screened to lessen the impact of an industrial facility placed adjacent to residential neighborhoods. The facility must provide handicap access, adequate parking for both employees and customers, and vehicular access for delivery trucks.
CURRENT SITUATION: The MFH maintenance contractor currently operates from two World War II era facilities. These buildings have long since exceeded their life expectancy and are becoming an ever increasing maintenance problem. The facilities are located within the training portion of the base. This location inconveniences customers and increases the response and routine repair times of the maintenance contractor. Additionally, long term plans call for the demolition of all World War II era facilities including the facilities occupied by the MFH maintenance contractor.
IMPACT IF NOT PROVIDED: The MFH maintenance contractor will be forced to

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
LACKLAND AIR FORCE BASE, TEXAS	
4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE FAMILY HOUSING MAINTENANCE FACILITY	MPLS964006

continue operating from facilities which are located far from Lackland's main housing areas adding inefficiency and customer inconvience to the housing maintenance operation. Cost associated with required maintenance of the existing facilities will become an increasing burden on available resources. Future plans to demolish all World War II era facilities, improving the image of Lackland, will be jeopardized.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MCCHORD AIR FORCE BASE, WASHINGTON	AIR MOBILITY COMMAND	1.08

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	460	3341	1113				7	26	190	5,137
b. End FY 2001	398	2853	1040				7	26	190	4,514

7. INVENTORY DATA ($000)

a. Total Acreage: (6,902)	
b. Inventory Total As Of: (30 SEP 95)	201,531
c. Authorization Not Yet In Inventory:	11,790
d. Authorization Requested In This Program:	5,659
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	218,980

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
711-142	REPLACE FAMILY HOUSING, PHASE 2	40 UN	5,659	TURN KEY	
		TOTAL:	5,659		

9a. Future Projects: Included in the Following Program (FY 1998) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: An airlift wing with three C-141 squadrons; an Air Force Reserve C-141 associate airlift wing; and the Western Air Defense Sector, which will be assigned to the Air National Guard.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCHORD AIR FORCE BASE, WASHINGTON	REPLACE FAMILY HOUSING, PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	711-142	PQWY974002	5,659

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	40	91,862	3,674
SUPPORTING FACILITIES				1,434
SITE PREPARATION	LS			(204)
ROADS AND PAVING	LS			(125)
UTILITIES	LS			(160)
LANDSCAPING	LS			(45)
RECREATION	LS			(50)
GARAGES	LS			(180)
LAND ACQUISITION	LS			(670)
SUBTOTAL				5,108
CONTINGENCY (5%)				255
TOTAL CONTRACT COST				5,363
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				295
TOTAL REQUEST				5,659
AREA COST FACTOR 1.08				

10. Description of Proposed Construction: Replace 40 substandard housing units. Includes site preparation, utilities, roads, land acquisition, neighborhood recreation areas, and landscaping. Amenities include heating, air-conditioning, carpeting, garages, appliances, patios, and privacy fencing. Includes demolition of existing units, asbestos and lead-based paint removal.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSM	NO. UNITS	TOTAL COST
JNCO 4BR	125	1.09	661	20	1,801,225
SNCO 3BR	125	1.09	661	10	900,613
SNCO 4BR	135	1.09	661	10	972,662
				40	3,674,500

11. PROJECT: Replace substandard family housing units. (Current Mission) REQUIREMENT: Project will provide modern and efficient housing for military members and their families assigned at McChord AFB. All units will meet "whole house/neighborhood" standards and provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. Land acquisition of 20 acres is required. There is no land or housing available for use on Fort Lewis Army Post or McChord AFB.

CURRENT SITUATION: This project replaces houses constructed in 1941. These houses were identified as uneconomical to upgrade in 1972 and the FY73 Military Construction Authorization, Public Law 92-545, authorized the Secretary of Defense to declare these substandard. These 55-year old houses are located in the high noise (65-70 LDN AICUZ) and industrial area

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
MCCHORD AIR FORCE BASE, WASHINGTON	
4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE FAMILY HOUSING, PHASE 2	PQWY974002

of the base, are undersized, meet none of the "whole house/neighborhood" standards, and have deteriorated due to heavy use. They have had no major upgrades since construction and do not meet the needs of today's families. There is no interior storage, the laundry is located in an exterior area common to two units used to house the heating system. There are no entry foyers,the only entry opens directly into the living room. Bedrooms are undersized with negligible closet space. Electrical, water and sewer systems are the original. Off street parking is limited to one paved space per unit or none due to terrain constraints. There is no land available on McChord AFB or Ft Lewis Army Post to accomodate this project.
IMPACT IF NOT PROVIDED: Military members and their families will be forced to continue living in substandard, uninhabitable units because affordable off-base housing is not available. The current Housing Market Analysis, dated Sep 94, shows a deficit of 208 units, not counting the 100 substandard units to be replaced by the FY96 and FY97 projects.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide". Since this is replacement housing, there will be no increase in the student population or impact on the ability of the local school district to support base dependents. This project is the second phase of a program started in FY96 to replace 90 substandard housing units, therefore, to realize cost savings from economies of scale, this project along with land acquisition may be advertised as options to the FY96 project.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT Apr94	2. FISCAL YEAR 1997	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT AIR FORCE	4. REPORTING INSTALLATION a. NAME McChord Air Force Base	b. LOCATION Tacoma, Washington	
5. DATA AS OF Sep 94			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT OFFICER (a)	CURRENT E9-E4 (b)	CURRENT E3 - E1 (c)	CURRENT TOTAL (d)	PROJECTED OFFICER (e)	PROJECTED E9 -E4 (f)	PROJECTED E3 - E1 (g)	PROJECTED TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	756	3,446	802	5,004	517	3,078	716	4,311
7. PERMANENT PARTY PERSONNEL	756	3,446	802	5,004	517	3,078	716	4,311
8. GROSS FAMILY HOUSING REQUIREMENTS	561	3,082	528	4,171	384	2,753	471	3,608
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)								
a. INVOLUNTARILY SEPARATED								
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED								
c. UNACCEPTABLE HOUSED IN COMMUNITY								
10. VOLUNTARY SEPARATIONS	28	239	32	299	20	214	28	261
11. EFFECTIVE HOUSING REQUIREMENTS	533	2,843	496	3,872	364	2,539	443	3,347
12. HOUSING ASSETS (a + b)	518	2,653	452	3,623	355	2,375	408	3,139
a. UNDER MILITARY CONTROL	117	776	88	981	117	776	100	993
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	117	776	88	981	117	776	100	993
(2) UNDER CONTRACT/APPROVED								
(3) VACANT								
(4) INACTIVE								
b. PRIVATE HOUSING	401	1,877	364	2,642	238	1,599	308	2,146
(1) ACCEPTABLY HOUSED								
(2) ACCEPTABLE VACANT RENTAL								
13. EFFECTIVE HOUSING DEFICIT	15	190	44	249	9	164	35	208
14. PROPOSED PROJECT					0	40	0	40

15. REMARKS

DD FORM 1523, NOV 90

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

POST ACQUISITION CONSTRUCTION

Program (In Thousands)
FY 1997 Program $88,550
FY 1996 Program $90,959

Purpose and Scope

The Air Force currently operates approximately 114,000 family housing units for FY96, decreasing to approximately 111,000 for FY97. The average age of housing units in the Air Force inventory is over 30 years. Over 60,000 of these units now require improvements or renovation to meet contemporary living standards during the next decade. Many of these units require major expenditures to repair or replace deteriorated mechanical, electrical, or structural components, and to provide some of the modern amenities found in comparable community housing. The Post Acquisition Construction Program provides this needed revitalization. Each project also includes a significant amount of concurrent maintenance and repair to maximize the project cost effectiveness (average per project is 60%).

The Air Force is the acknowledged DoD leader in developing the "whole house" revitalization concept. Whole house is the combination of needed maintenance and repair together with improvements to bring the unit to contemporary standards. In addition, we are looking beyond the house to the entire housing area in our requirements plan. Our "whole neighborhood" concept is being developed and includes the development of neighborhood vehicular and pedestrian circulation concepts to consider citing, density, landscaping, parking, playgrounds, recreation area and utilities, in addition to the housing unit itself.

Consistent with Authorization and Appropriation Committees' language in FY 90, the Air Force is seeking to maintain funding in this account to continue revitalizing our aging homes. Consistent with Appropriation Committees' language in FY 85, the Air Force has gathered data on the post acquisition construction projects to detail past projects on these units and any future work being programmed within a three year period. This information is provided as a part of this submittal.

Program Summary

Authorization is requested for:
(1) Various improvements to existing public quarters, as described on DD Form 1391.
(2) Appropriation of $88,550,000 to fund projects in FY97.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

NOTE: Projects within the program are within the statutory limitation of $50,000 per unit adjusted by area cost factor, except as identified by separate DD Form 1391.

POST ACQUISITION CONSTRUCTION PROJECTS (OVER $50,000 PER UNIT)

A separate DD Form 1391 follows for each Post Acquisition Construction project which is over $50,000 per unit (multiplied by the Area Cost Factor).

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VARIOUS AIR FORCE BASES	POST ACQUISITION CONSTRUCTION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-000	XXXX9700PAIP	88,550

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
POST ACQUISITION CONSTRUCTION				88,550
PROJECTS TO IMPROVE FAMILY HOUSING	UN	905	94,725	(85,726)
PROJECTS TO IMPROVE SUPPORT FACILITIES	LS			(2,824)
SUBTOTAL				88,550
TOTAL CONTRACT COST				88,550
TOTAL REQUEST				88,550

10. Description of Proposed Construction: Includes all work necessary to revitalize military family housing by providing: air conditioning, where authorized; modern functional layouts; soundproofing; and utility and site improvements. Energy conservation actions include new and additional insulation, storm windows, solar screens, and more efficient heating and cooling systems. (Continued on next pages.)

11. PROJECT: This request is for appropriation of $88.550 million to accomplish improvements in family housing units.

REQUIREMENT: To revitalize and improve the livability of older, obsolete family housing units, to conserve energy in these older housing units, and to bring utility systems up to current safety standards. Whole-house improvements includes but are not limited to: kitchen upgrades, bathroom additions/upgrades; repair/replacement of roofs, upgrade of mechanical & electrical systems, replacement of windows, doors, floors and exterior improvements (patios, fences, etc.)

CURRENT SITUATION: The majority of these housing units were constructed since the late 1940's using various design and construction criteria, with different types of material, installed equipment, appliances, livability, and appearance. Many utility and structural systems were designed and constructed during years of plentiful, inexpensive energy resources. Insulation, storm windows, etc., not previously cost effective, are now wise investments. This program will prolong the useful life of many of our older, less modern units by enhancing livability, reducing operation costs and improving safety aspects.

ADDITIONAL: These projects meet the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide" unless noted on the individual DD Form 1391s.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
UNITED STATES	
ALABAMA	
MAXWELL AFB	
IMPROVE FAMILY HOUSING	2,515
PNQS964021	
- Provides general interior and exterior modernization and renovation of 29 housing units. Includes utility upgrade and additions to meet current standards. Upgrades basements, kitchens, bathrooms, laundry rooms, floor covering, floorplans, garages, and patios. Provides neighborhood improvements, landscaping, and playgrounds. Includes demolition, asbestos/lead-based paint removal. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
ARIZONA	
LUKE AFB	
IMPROVE FAMILY HOUSING (PHASE 4)	4,339
NUEX9107014	

- Improve 50 units. Renovate kitchen/bath, upgrade electrical/plumbing/HVAC systems, construct laundry rooms,patios and storage, correct floor plan/unit layout deficiencies including converting 3 bdrm units to 2 bdrms, replace floor coverings, doors, windows, and ceilings. Provide landscaping, recreational areas, sidewalks, fencing, screen walls, and other neighborhood improvements. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Roofs for housing units were replaced over the past three years, however, this work is not included in this project.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
COLORADO	
USAF ACADEMY	
IMPROVE CAPEHART FAMILY HOUSING	3,911
XQPZ960030	
- Improve 60 Capehart units. Renovate kitchens and bathrooms; add family rooms, bathrooms, privacy fencing, garages and trash enclosures. Relocate washers/dryers to main level and patios next to the family room/kitchen. Functional layouts will be modified and square footage increased as required. Repair interior and exterior features and landscape as required. Construct two playgrounds. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Includes some radon mitigation (average cost, $2,700/unit), some minor roof repairs ($1,400/unit average), and basement leak repairs ($4,500/unit average).	
- WORK PROGRAMMED FOR NEXT THREE YEARS: No work is programmed for the next three years in these units.	
IMPROVE HOUSING MAINTENANCE FACILITY	323
XQPZ977300	
- The addition is a preengineered metal building, concrete floor slab and foundation, truss and column steel frame and metal roof system to match existing metal facilities. Renovate existing facility and install new HVAC systems, new ceilings, and electrical system upgrade as required.	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
FLORIDA	
EGLIN AUX 9 FLD COMMUNITY IMPROVEMENT FTEV964002	2,351
- Construct paved multi-use trails with asphalt, site furnishing to include signage, bus shelters, benches and litter receptables. Block and Neighborhood-Scale improvement, Neighborhood-Scale Open Space of ornamental trees, plantings at intersection to mark entry street in a neighborhood and each block of housing. Enhance collector streets with larger trees.	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
HAWAII	
HICKAM AFB IMPROVE FAMILY HOUSING (PHASE 2) KNMD974401	16,624
- Improve 69 housing units (including 4 GOQs). Work includes general interior and exterior renovation and modernization; utility upgrades and additions to living areas to meet current standards; improved floor plans; increased energy efficiency; and environmental compliance. Neighborhood work includes utility upgrades, recreational facilities, pavement and landscaping. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None.	

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
ILLINOIS	
SCOTT AFB	
IMPROVE FAMILY HOUSING	4,224
VDYD974006	
- Improve 37 units including one historical general officer unit. Reconfigure & upgrade kitchen, bathroom, living room; modify outdated mechanical, electrical & plumbing systems; repair interior finishes to include carpet, wall covering, paint, and flooring. Install privacy fencing, patios, covering on patio. Replace historically compatible 2-car garage. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
MONTANA	
MALMSTROM AFB	
IMPROVE CAPEHART FAMILY HOUSING	4,714
NZAS8600012	
- Improves 52 units through the construction of family/living room additions, patios or decks, privacy fences and exterior storage. Complete interior renovation and repairs and insulation of basement walls. Provides utility system upgrade, landscaping and off street parking for second vehicle. Includes demolition and asbestos/lead-based paint removal. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
NEBRASKA	
OFFUTT AFB	
IMPROVE MILITARY FAMILY HOUSING (PHASE 3)	6,841
SGBP960015	
- Improve 90 housing units. Includes utility upgrade and additions to meet standards. Upgrades kitchens, bathrooms and flooring, inproves floorplans, provides increased energy efficiency, privacy fencing, patios, playgrounds and recreation areas, and replaces carports with garages. Includes appliances, demolition, asbestos/lead-based paint removal and radon remediation. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
NEW JERSEY	
MCGUIRE AFB	
COMMUNITY IMPROVEMENTS	8,580
PTFL974001	
- Interior and exterior modernization and renovation of 80 housing units. Upgrades kitchens, bathrooms, floor coverings, improves floorplans, increases energy efficiency, privacy fencing, patios, playgrounds, and recreation areas. Includes demolition and asbestos/lead-based paint removal. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
OKLAHOMA	
TINKER AFB	
IMPROVE FAMILY HOUSING PHASE 3	4,748
WWYK8703263	
- Improve 68 FY60-69 Appropriated housing units. Work includes replacing deteriorated cabinetry, plumbing, fixtures, doors, windows, trim, floor coverings, and roofing. Floor plans will be reconfigured to improve functional layouts. Square footage added to three undersized unit types (approx. 130 NSF). Neighborhood improvements include fences, sidewalks, Grade mix: 68 E5-E6. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Exterior renovation of 12 units in FY91 under project WWYK91-4177	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
VANCE AFB	
NEIGHBORHOOD IMPROVEMENTS	150
XTLF934028	
- Construct community use sidewalks in the greenbelt areas behind the military family housing units, to connect with existing sidewalks. Work shall include handicap ramp transitions, relocation of utility pedestals (cable TV and telephone) as required and provide all other necessary support.	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None.	

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
TEXAS	
RANDOLPH AFB	
IMPROVE CIRCLE HOUSING, PHASE 3	4,050
TYMX944000	
- Improve 36 appropriated units. Renovate kitchen/baths/bedrooms. Replace/refinish floors. Remove lead- based paint/asbestos. Install insulation. Replace HVAC/water heaters/ pumps/sewer lines. Repair fireplaces/chimneys. Replace exterior trim. Repair/replace carports. Correct floor plan/unit layout deficiencies. Landscape as required. Repair roofs. Other necessary repairs as (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
SHEPPARD AFB	
IMPROVE MILITARY FAMILY HOUSING (PH 4)	4,448
VNVP974002	
- Improve 64 Capehart units. Renovate kitchens/baths, upgrade electrical/plumbing/HVAC systems, enlarge master bedroom closets, provide patios and storage sheds, correct floor plan/unit layout deficiencies, provide family rooms, upgrade/paint interiors. Provide landscaping recreational areas, sidewalks, fencing, and other neighborhood improvements. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None.	

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
VARIOUS AIR FORCE BASES	
4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
OVERSEAS	
GERMANY	
RAMSTEIN AB	
IMPROVE FAMILY HOUSING	763
TYFR974005	
- Provide concrete bathroom towers for 32 apartment type housing units. Includes erection of precast concrete towers, installation of bathroom fixtures, and all plumbing, carpentry, electrical, and other work necessary to provide a laundry room and a second bathroom in MFH units to meet minimum housing standards and needs.	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
SPANGDAHLEM AB	
IMPROVE FAMILY HOUSING	2,484
VYHK948002	
- improve 44 units. Replace roof with pitched roof which meets German building code, and install dormer type windows for 8 attic units. Repair interior walls/finishes, upgrade kitchens and bathrooms, and upgrade electrical systems in 8 attic units. Replace/enlarge 36 existing balconies to 4' x 6' and construct 8 new balconies for attic units. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
GERMANY (CONT)	
VOGELWEH ANX	
IMPROVE FAMILY HOUSING	2,282
YANB944538	
- Improve 22 family housing units. Install bathroom, dishwashers, stove exhaust hoods and fire hose connections. Construct storage area. Repair and paint interior surfaces. Replace kitchen cabinets, counter tops sinks and fixtures; bathroom commodes, showers, vanities and fixtures; unit closets, doors, radiators, utility systems, door bells, intercom and antenna systems. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None.	
GUAM	
ANDERSEN AFB	
IMPROVE FAMILY HOUSING (PHASE 8)	8,767
AJJY964403R1	
- Improve 62 family housing (inc. one GOQ) units. Work includes enlarging the master bedroom, renovation of kitchen, bathroom, plumbing and electrical systems, and typhoonshutters; construction of outside storage and installation of package A/C system. Environmental work includes asbestos and lead based paint compliance. Neighborhood improvements include bus shelter, (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None.	

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VARIOUS AIR FORCE BASES

4. PROJECT TITLE	5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION	N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
UNITED KINGDOM	
RAF CROUGHTON	
IMPROVE FAMILY HOUSING	1,500
EXSW964012	
- Provides general interior and exterior renovation and moderization of 25 MFH units. Upgrades/replaces utilities. Constructs a second bathroom and adds utility room. Repairs wall finishes and floors. Replaces doors. Upgrades kitchens, bathroom, and living areas. Provides carpet, storm porches, patios, storage, and landscaping. Installs fire detection, Improves driveways and pavements. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
RAF LAKENHEATH	
IMPROVE FAMILY HOUSING	2,864
MSET944002	
- Improve 32 units. Reconfigure entrance hallway, laundry room, half bath, and guest closet. Replace electrical wiring and fixtures. Redecorate throughout. Install natural gas service. Replace roofs, recondition exteriors and repaint. Replace external water supply and drainage systems. Construct patios, privacy fences, and landscape. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None.	

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION		
VARIOUS AIR FORCE BASES		
4. PROJECT TITLE		5. PROJECT NUMBER
POST AQUISITION CONSTRUCTION		N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
UNITED KINGDOM (CONT)	
RAF MILDENHALL	
IMPROVE FAMILY HOUSING	2,072
QFQE944002	
- Improve 53 family housing units. Extend existing pitch roof to create a carport and utility room. Construct storage shed. Replace electrical circuits Upgrade kitchen and bathrooms. Repair and paint all interior surfaces and install carpets. Maintain and repair emergency fire fighting water tanks. Repair fences and roads. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

POST ACQUISITION CONSTRUCTION PROJECTS (OVER $50,000 PER UNIT)

A separate DD Form 1391 follows for each Post Acquisition Construction project which is over $50,000 per unit (multiplied by the Area Cost Factor).

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MAXWELL AIR FORCE BASE, ALABAMA	IMPROVE FAMILY HOUSING (PHASE 4 OF 4)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-144	PNQS964021	2,515

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	LS			1,616
UPGRADE JNCO 2BDR COTTAGES	UN	13	52,690	(685)
UPGRADE JNCO 4BDR DUPLEXS	UN	16	58,190	(931)
SUPPORTING FACILITIES				710
LEAD BASED PAINT/ASBESTOS ABATEMENT	LS			(235)
GARAGES/STORAGE/PATIO	LS			(200)
LANDSCAPING/PLAYGROUND	LS			(150)
NEIGHBORHOOD IMPROVEMENTS	LS			(125)
SUBTOTAL				2,326
CONTINGENCY (5%)				116
TOTAL CONTRACT COST				2,442
SUPERVISION, INSPECTION AND OVERHEAD (3%)				73
TOTAL REQUEST				2,515
MOST EXPENSIVE UNIT $101,000				
AREA COST FACTOR 0.74				

10. Description of Proposed Construction: Provides general interior and exterior modernization and renovation of 29 housing units. Includes utility upgrade and additions to meet current standards. Upgrades basements, kitchens, bathrooms, laundry rooms, floor covering, floorplans, garages, and patios. Provides neighborhood improvements, landscaping, and playgrounds. Includes demolition, asbestos/lead-based paint removal.

11. REQUIREMENT: 4,428 UN ADEQUATE: 3,036 UN SUBSTANDARD: 532 UN

PROJECT: Improve Military Family Housing (Phase 4). This phase includes work in 29 Junior NCO Quarters. (Current Mission)

REQUIREMENT: This project is required to provide modern and efficient housing for military members and their dependents stationed at Maxwell AFB. The housing must be upgraded to meet current life safety codes and to provide a comfortable and appealing living environment comparable to the off-base civilian community. This is the fourth of multiple phases to upgrade 77 houses. Twenty units have been upgraded and twenty eight are under construction. All units will meet "whole house" standards. Renovated housing will provide a modern kitchen, living room, family room, bedroom and bath configuration, with ample interior and exterior storage. Living units will be expanded to meet current space authorizations. Single car garages and off street parking will be provided.

CURRENT SITUATION: These units were constructed in the 1930's and aside from kitchen renovations have experienced little renovation work since their construction. There are no exterior electrical outlets for use with modern outside equipment. These are two-story four bedroom units with only one bath, which is located on the 2nd floor. The existing bathroom is poorly equipped and outdated. They have little interior storage and the basements continue to seep water through the concrete walls. The

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	
MAXWELL AIR FORCE BASE, ALABAMA	
4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING (PHASE 4 OF 4)	PNQS964021

mechanical systems are energy inefficient and generate excessive maintenance calls.

IMPACT IF NOT PROVIDED: Air Force members and their families would continue to be housed in unsatisfactory conditions, affecting morale and the retention of quality personnel.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: These quarters are eligible to be placed on the national register for historical preservation. Alternatives are not available for comparative evaluation. An abbreviated economic analysis has been prepared.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE, ARIZONA	IMPROVE FAMILY HOUSING (PHASE 4)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-111	NUEX9107014	4,339

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING PHASE 4	UN	50	53,520	2,676
SUPPORTING FACILITIES				1,336
UTILITIES/EMCS/COMM	LS			(154)
SITE IMPROVEMENTS	LS			(291)
PAVEMENTS/SIDEWALKS/SCREEN WALLS	LS			(281)
RECREATION	LS			(202)
NEIGHBORHOOD IMPROVEMENTS	LS			(220)
LANDSCAPING	LS			(188)
SUBTOTAL				4,012
CONTINGENCY (5%)				201
TOTAL CONTRACT COST				4,213
SUPERVISION, INSPECTION AND OVERHEAD (3%)				126
TOTAL REQUEST				4,339
MOST EXPENSIVE UNIT $98,872				
AREA COST FACTOR 1.00				

10. Description of Proposed Construction: Improve 50 units. Renovate kitchen/bath, upgrade electrical/plumbing/HVAC systems, construct laundry rooms,patios and storage, correct floor plan/unit layout deficiencies including converting 3 bdrm units to 2 bdrms, replace floor coverings, doors, windows, and ceilings. Provide landscaping, recreational areas, sidewalks, fencing, screen walls, and other neighborhood improvements.

11. REQUIREMENT: 3,156 UN ADEQUATE: 2,218 UN SUBSTANDARD: 474 UN

PROJECT: Provide improvements and repairs to 50 Capehart housing units. (Current mission)

REQUIREMENT: Provide adequate quarters for military members and their families assigned to Luke Air Force Base. This project is phase four of a multi-phased construction program to renovate all Capehart Housing units. The housing must be upgraded to meet current life safety codes and to provide a comfortable and appealing living environment comparable to off-base civilian community. All units will meet "whole house" standards and are programmed in accordance with phase four of the Housing Commmunity Plan. Renovated housing will provide a modern kitchen, living room, family room, bedroom and bath configuration, with ample interior and exterior storage. Neighborhood improvements are required and will include landscaping, playgrounds, recreation areas, open space development, and housing area signage.

CURRENT SITUATION: These units were constructed in 1960 and have received no major renovation, other than routine work and change of occupancy maintenance, since construction. The kitchens do not provide adequate dining arrangements or counter space. The connections for the washers and dryers are located in the kitchen. Interior walls and ceilings need repair, doors and flooring need replacement. The electrical system has

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

LUKE AIR FORCE BASE, ARIZONA

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING (PHASE 4)	NUEX9107014

deteriorated and does not provide for three wire grounded service. The plumbing system is rusting through at sub surface traps and there are line failures in the water system. The ventilation and HVAC systems are inefficient and need to be upgraded. The housing area does not provide sidewalks nor sufficient community/picnic areas and playgrounds.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsatisfactory conditions, affecting morale and retention of quality personnel. The units will continue to deteriorate until they are no longer liveable facilities. Increased costs to the Government will continue in the operations, maintenance, and repair of these housing unit.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Roofs for housing units were replaced over the past three years, however, this work is not included in this project.

WORK PROGRAMMED FOR NEXT THREE YEARS: None.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, improvement was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY, COLORADO	IMPROVE CAPEHART FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-111	XQPZ960030	3,911

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE CAPEHART FAMILY HOUSING	UN	60	51,670	3,100
SUPPORTING FACILITIES				516
UTILITIES	UN	32	1,187	(38)
LANDSCAPING	UN	60	850	(51)
ENVIRONMENTAL HAZARD MITIGATION	UN	60	2,566	(154)
RECREATION FACILITIES	LS			(273)
SUBTOTAL				3,616
CONTINGENCY (5%)				181
TOTAL CONTRACT COST				3,797
SUPERVISION, INSPECTION AND OVERHEAD (3%)				114
TOTAL REQUEST				3,911
MOST EXPENSIVE UNIT $88,046				
AREA COST FACTOR 1.06				

10. Description of Proposed Construction: Improve 60 Capehart units. Renovate kitchens and bathrooms; add family rooms, bathrooms, privacy fencing, garages and trash enclosures. Relocate washers/dryers to main level and patios next to the family room/kitchen. Functional layouts will be modified and square footage increased as required. Repair interior and exterior features and landscape as required. Construct two playgrounds. Grade Mix: 60 O3-O10.

11. REQUIREMENT: 1,481 UN ADEQUATE: 137 UN SUBSTANDARD: 1,092 UN

PROJECT: Provides improvements and repairs to 60 Capehart military family housing units and constructs two playgrounds.

REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation. All units will meet "whole house" standards and are programmed in accordance with the Housing Community Plan.

CURRENT SITUATION: These units were constructed in 1959 with kitchens, baths, windows and siding partially renovated between 1977 and 1983. Units do not meet current DoD standards. Kitchens need modifications to provide adequate storage cabinet and countertop areas. Most units do not have enough bathrooms. Formal/informal dining areas are too small and very few units have family rooms. The units require maintenance and repair on plumbing, heating and electrical systems. Closet doors are difficult to operate and most laundry areas are in the basements away from the bedrooms. Mitigation of asbestos, radon, and lead-based paint is required in some units to meet EPA and Air Force standards. Existing carports and entry foyers are inadequate for climatic conditions. Landscaping is poor to non-existent.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

USAF ACADEMY, COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE CAPEHART FAMILY HOUSING	XQPZ960030

IMPACT IF NOT PROVIDED: Occupants will continue to live in substandard housing units that do not meet Air Force standards or are of comparable quality to off-base housing. Operations and maintenance costs will continue to increase due to the age and deterioration of the facilities and building systems. Energy consumption will increase and utility expenses will continue to escalate. Morale and retention of quality Air Force people will be reduced. The units will become uninhabitable.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Includes some radon mitigation (average cost, $2,700/unit), some minor roof repairs ($1,400/unit average), and basement leak repairs ($4,500/unit average).

WORK PROGRAMMED FOR NEXT THREE YEARS: No work is programmed for the next three years in these units.

ADDITIONAL: The average replacement cost for the two unit types in this project are $137,000 and $162,000. The total work in this project represents a maximum of 50% of the replacement cost of an individual unit. Economic analysis demonstrates improving these units is the most economical way to continue to operate them. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	IMPROVE FAMILY HOUSING (PHASE 2)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711 143	KNMD974401	16,624

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING (PHASE 2)	UN	69	181,780	12,543
SUPPORTING FACILITIES				2,828
UTILITIES	LS			(1,408)
RECREATIONAL FACILITIES	LS			(308)
LANDSCAPING	LS			(342)
PAVEMENTS	LS			(351)
ASBESTOS/LEAD BASED PAINT COMPLIANCE	LS			(382)
DEMOLITION/DISPOSAL	UN	4	9,250	(37)
SUBTOTAL				15,371
CONTINGENCY (5%)				769
TOTAL CONTRACT COST				16,140
SUPERVISION, INSPECTION AND OVERHEAD (3%)				484
TOTAL REQUEST				16,624
MOST EXPENSIVE UNIT $263,000				
AREA COST FACTOR 1.64				

10. Description of Proposed Construction: Improve 69 housing units (including 4 GOQs). Work includes general interior and exterior renovation and modernization; utility upgrades and additions to living areas to meet current standards; improved floor plans; increased energy efficiency; and environmental compliance. Neighborhood work includes utility upgrades, recreational facilities, pavement and landscaping.

11. REQUIREMENT: 3,195 UN ADEQUATE: 707 UN SUBSTANDARD: 2,365 UN

PROJECT: Improve 69 family housing units (Phase 2). (Current Mission)

REQUIREMENT: This project is required to provide modern and efficient housing for military members and their dependents stationed at this installation. Housing must be upgraded to meet current life safety codes and to provide a comfortable and appealing living environment comparable to the off-base civilian community. This is the second of multiple phases to upgrade housing units. 180 units are new and do not require upgrading. 124 units have been upgraded or are approved in previous phases and 2365 units remain to be accomplished. All units will meet whole house standards and are programmed in accordance with phase two of the Housing Community Plan. Renovated housing will provide modern kitchens, baths, air conditioning and improved interior configurations. Whole neighborhood improvements will be provided.

CURRENT SITUATION: Units were constructed in 1964/65 and have not been renovated. The units are minimally adequate in size, require upgrade of electrical and plumbing systems, are subjected to temperatures in excess of 90 degrees during the summer months, and require upgrade of kitchens and baths. Carports are old gang-type and must be replaced; bulk storage space is minimal; smoke detectors are lacking and are not interconnected; and some units require family rooms. Neighborhoods contain no

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION
HICKAM AIR FORCE BASE, HAWAII

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING (PHASE 2)	KNMD974401

playgrounds, sparse landscaping, and deteriorated sidewalks. Parking is congested. There is no sense of community or home.

IMPACT IF NOT PROVIDED: Members will continue to be housed in unsatisfactory and undersized units with adverse effects on morale and retention and be subjected to temperatures in excess of 90 degrees during the summer months. Without this project, these units and carports will continue to deteriorate as maintenance costs increase. Units will remain out of compliance with Air Force standards of size, livability and life safety.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.

WORK PROGRAMMED FOR NEXT THREE YEARS: None.

ADDITIONAL: This project meets the criteria/scope specified in Part II of the Military Handbook 1190, "Facility Planning and Design Guide." An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. The initial cost percentage of improvement versus replacement cost is 68.7 percent. The housing requirements analysis based on the Oahu Island-wide housing market analysis contains a projected housing deficit of 123 units.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SCOTT AIR FORCE BASE, ILLINOIS	IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-142	VDYD974006	4,224

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	37	77,240	2,858
SUPPORTING FACILITIES				937
ASBESTOS & LEAD BASE PAINT REMOVAL	LS			(55)
SITE WORK/IMPROVEMENTS/LANDSCAPING	LS			(882)
SUBTOTAL				3,795
CONTINGENCY (5%)				190
TOTAL CONTRACT COST				3,985
SUPERVISION, INSPECTION AND OVERHEAD (6%)				239
TOTAL REQUEST				4,224
MOST EXPENSIVE UNIT $250,000				
AREA COST FACTOR 1.14				

10. Description of Proposed Construction: Improve 37 units including one historical general officer unit. Reconfigure & upgrade kitchen, bathroom, living room; modify outdated mechanical, electrical & plumbing systems; repair interior finishes to include carpet, wall covering, paint, and flooring. Install privacy fencing, patios, covering on patio. Replace historically compatible 2-car garage.
Air Conditioning: 5 KW.

11. PROJECT: Improve family housing (Phase B) and one historical general officer unit. (Current Mission)
REQUIREMENT: To provide a comfortable and appealing living environment comparable to the off-base civilian community for military members and their families at Scott AFB and for the United States Transportation/Air Mobility Command Commander. This project is necessary to bring these units up to contemporary "whole house" standards IAW the Scott AFB Housing Community Plan.
CURRENT SITUATION: These units were constructed in 1970 and 1939 and require major renovation to correct deterioration resulting from age and continuous heavy use. Units have received minimal maintenance and repairs since constructed and are standard wood frame, slab on grade, with concrete foundation. Gas-fired furnance, domestic water heater, air-conditioning system and condensing unit are in poor condition. Original plumbing lines are filled with sediment from "hard" water, reducing water pressure and volume. Electrical system is not grounded and does not meet current safety codes. Existing room proporations are awkwardand not conducive to usage. Kitchen and bathroom fixtures and finishes are worn, outdated, and require replacement. Units lack or have

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SCOTT AIR FORCE BASE, ILLINOIS

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING	VDYD974006

inadequate storage, patio and backyard privacy. 4-bedroom units do not provide maximum congressionally authorized net square footage. None of the units meet contemporary standards.

IMPACT IF NOT PROVIDED: Low morale and retention problems can be expected since Air Force members and families will continue to be inadequately housed. Units will continue to deteriorate resulting in escalating operations, maintenance and repair costs to the Government. Energy consumption will increase due to inadequate building systems causing utility costs to increase.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: Higher supervision, inspection and overhead (SIOH) rate of 6 percent reflectes the Army Corps of Engineers as the Construction Agent. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. The improvement cost represents 63% of replacement value. all units have major deficiencies: inflatration/heat loss due to original loose-fitting windows lack of or poorly installed wall, ceiling and entryway insulation or insufficient vapor barriers; inefficient heating/cooling equipment, applicances and lighting; improper venting.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MALMSTROM AIR FORCE BASE, MONTANA	IMPROVE FAMILY HOUSING (PHASE 2)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.42	711-111	NZAS8600012	4,714

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING (PHASE 2)	UN	52	68,442	3,559
SUPPORTING FACILITIES				800
ASBESTOS/LEAD-BASE PAINT ABATEMENT	LS			(150)
COMMUNITY IMPROVEMENTS	LS			(100)
UNDERGROUND UTILITIES	LS			(310)
LANDSCAPING	LS			(150)
ROAD AND SIDEWALK IMPROVEMENTS	LS			(90)
SUBTOTAL				4,359
CONTINGENCY (5%)				218
TOTAL CONTRACT COST				4,577
SUPERVISION, INSPECTION AND OVERHEAD (3%)				137
TOTAL REQUEST				4,714
MOST EXPENSIVE UNIT $99,720				
AREA COST FACTOR 1.16				

10. Description of Proposed Construction: Improves 52 units through the construction of family/living room additions, patios or decks, privacy fences and exterior storage. Complete interior renovation and repairs and insulation of basement walls. Provides utility system upgrade, landscaping and off street parking for second vehicle. Includes demolition and asbestos/lead-based paint removal.

11. REQUIREMENT: 2,715 UN ADEQUATE: 1,164 UN SUBSTANDARD: 1,551 UN

PROJECT: Improve Military Family Housing (Phase 2). This phase includes work on 52 Junior NCO units. Eight 2 bedroom units, forty 3 bedroom units, and four 4 bedroom units will be improved.(Current Mission)

REQUIREMENT: To provide modern, energy efficient military family housing for assigned personnel and their dependents. This project is the second phase of a eight phase Military "Whole House" Improvement Program to improve 1406 houses. All units will meet "whole house" standards and are programmed in accordance with Phase B of the HCP. Fifty-nine units have been upgraded or approved in previous phases, and 1347 remain to be accomplished in subsequent phases. The housing must be upgraded to meet current life safety codes and to a comfortable and appealing living environment comparable to off-base civilian community. Improvements include converting carports into garages, complete with mud/laundry area and construction of an addition to provide a larger kitchen/dining area. Concrete walks and pavement and replacement of windows will also be accomplished. Interior alterations include improvements to the bathrooms,closets,fixtures,kitchen cabinets/counter tops and constructing a family/activity room area in the basement.

CURRENT SITUATION: These military family housing units were constructed between 1961 and 1963 and have not had a significant renovation or upgrade

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MALMSTROM AIR FORCE BASE, MONTANA

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING (PHASE 2)	NZAS8600012

since initial construction. These units are from 189 to 432 net square feet short in the living and family room areas. The existing exterior storage is inadequate and does not meet the needs of the housing occupants. The units do not have patios, decks or privacy fences. The electrical conveniences outlets in the carports and bathrooms are not the ground fault type required by the National Electric Code. Since the basement walls and joist cavity are not insulated, the units are drafty and not energy efficient. The electrical distribution and street lighting systems are 1960 vintage and require replacement. The landscaping is very limited.

IMPACT IF NOT PROVIDED: The military family housing unit provided to the Junior NCOs will not satisfy their basic needs and desires. The lack of adequate housing has a detrimental effect on enlisted retention and morale. Units will continue to deteriorate rapidly, resulting in increasing operations, maintenance and repair costs to the Government and inconvenience to residence. The most recent Housing Market Analysis shows an on-base housing deficit of 204 units.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. The cost to improve this housing is 52% of the replacement cost.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
OFFUTT AIR FORCE BASE, NEBRASKA	IMPROVE MILITARY FAMILY HOUSING (PHASE 3)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.72.42	711-111	SGBP960015	6,841

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE MILITARY FAMILY HOUSING				
IMPROVE MILITARY FAMILY HOUSING (PH 3)	UN	90	44,580	4,012
SUPPORTING FACILITIES				2,314
COMMON NEIGHBORHOOD	LS			(200)
PAVEMENTS	LS			(140)
UTILITIES	LS			(515)
LANDSCAPING	LS			(65)
GARAGES AND STORAGES	LS			(970)
DEMO (34 UNITS) ASBESTOS & LBP REMOVAL	LS			(424)
SUBTOTAL				6,326
CONTINGENCY (5%)				316
TOTAL CONTRACT COST				6,642
SUPERVISION, INSPECTION AND OVERHEAD (3%)				199
TOTAL REQUEST				6,841
MOST EXPENSIVE UNIT $94,352				
AREA COST FACTOR 0.98				

10. Description of Proposed Construction: Improve 90 housing units. Includes utility upgrade and additions to meet standards. Upgrades kitchens, bathrooms and flooring, inproves floorplans, provides increased energy efficiency, privacy fencing, patios, playgrounds and recreation areas, and replaces carports with garages. Includes appliances, demolition, asbestos/lead-based paint removal and radon remediation.

11. REQUIREMENT: 6,242 UN ADEQUATE: 3,825 UN SUBSTANDARD: 2,373 UN

PROJECT: Improve Military Family Housing (Phase 3). (Current Mission)

REQUIREMENT: This project is required to provide modern and efficient housing for military members and their dependents stationed at Offutt AFB. The housing must be upgraded to meet current life safety codes and to provide a comfortable and appealing living environment comparable to the off-base civilian community. This is the third of multiple phases to upgrade 2,630 houses. Two hundred fifty-seven units have been upgraded in previous phases, and 2,272 remain to be accomplished in subsequent phases. All units will meet "whole house" standards and are programmed in accordance with phase "B" of the Housing Community Plan. Renovated housingwill provide a modern kitchen, living room, dining room, bedroom and bath configuration, with ample interior and exterior storage and garages. Parking will be provided for a second vehicle and/or visitors. Neighborhood improvements are required and will include landscaping, playgrounds and recreation areas. The support infrastructure (roads and utilities) will also be upgraded to meet modern living needs.

CURRENT SITUATION: This project upgrades and modernizes housing which was constructed in the mid-1960s (except for seven historic units constructed in the 1890s). These houses require major renovation and repair to correct deterioration resulting from age and heavy use. They have had no

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

OFFUTT AIR FORCE BASE, NEBRASKA

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE MILITARY FAMILY HOUSING (PHASE 3)	SGBP960015

major upgrades since construction, and do not meet the needs of today's families, nor do they provide a modern home environment. Kitchens are small and poorly configured. Most have outdated metal cabinets, and none have dishwashers. Bathrooms also require enlargement and replacement of outdated fixtures, vanities, and exhaust fans. Countertops are warped, stained and deteriorated from age and use. Plumbing and lighting fixtures are deteriorated. The electrical systems do not meet modern construction codes. Ground Fault Circuit Interrupter protection is lacking from bath, kitchen, and exterior circuits. Units do not have central air conditioning. Most units require roof repair or replacement. Windows and doors require replacement. Flooring is old and worn...some contains asbestos.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to live in extremely outdated, unsuitable and unsatisfactory housing. The housing will continue to deteriorate with age, resulting in increasing and unacceptable operations, maintenance and repair costs, and inconvenience to occupants. Costly repairs will continue, with little or no improvement in the living quality provided to occupants. Low morale and retention problems can be expected if such conditions are permitted to continue, since suitable, affordable off-base housing is not available. The most recent Housing Market analysis shows an on-base housing deficit of 44 units.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: Thirty-four housing units will be demolished as a part of this project to reduce the density of housing and improve neighborhood conditions. An additional 101 units will be upgraded. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, renovation was found to be the most cost efficient over the life of the project. The cost to improve this housing is 62% of the replacement cost.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-143	PTFL974001	8,580

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	80	83,600	6,688
SUPPORTING FACILITIES				1,021
SITE PREPARATION	LS			(658)
ASBESTOS & LEAD BASE PAINT REMOVAL	LS			(221)
COMMUNITY IMPROVEMENTS	LS			(142)
SUBTOTAL				7,709
CONTINGENCY (5%)				385
TOTAL CONTRACT COST				8,094
SUPERVISION, INSPECTION AND OVERHEAD (6%)				486
TOTAL REQUEST				8,580
MOST EXPENSIVE UNIT $129,100				
AREA COST FACTOR 1.19				

10. Description of Proposed Construction: Interior and exterior modernization and renovation of 80 housing units. Upgrades kitchens, bathrooms, floor coverings, improves floorplans, increases energy efficiency, privacy fencing, patios, playgrounds, and recreation areas. Includes demolition and asbestos/lead-based paint removal.

11. PROJECT: Improve 80 family housing units (Phase C). (Current Mission) REQUIREMENT: To provide a comfortable and appealing living environment comparable to the off-base civilian community for military members and their families at McGuire AFB. This project is programmed to meet "whole house" standards IAW the McGuire AFB Housing Community Plan.
CURRENT SITUATION: These units were constructed in 1961 and require major renovation to correct deterioration resulting from age and heavy use. They have had only routine maintenance and repairs since construction and do not meet the needs of today's families nor provide a modern home environment. Kitchen and bathroom cabinets and fixtures are obsolete. Plumbing and lighting fixtures are deteriorated. Electrical systems do not meet current safety codes. Ground Fault Circuit Interrupter protection is not provided. Windows, siding and insulation require replacement. The units have inadequate storage, no patio or backyard privacy. The units lack air conditioning; covered vehicle parking; cable and telephone wiring is exposed.
IMPACT IF NOT PROVIDED: Air Force members and families will continue to be inadequately housed. Low morale and retention problems can be expected since suitable, affordable off-base housing is not available. The most recent Housing Market Analysis shows an off-base deficit of 216 units. Units will continue to deteriorate resulting in escalating operations, maintenance and repair costs to the Government.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

MCGUIRE AIR FORCE BASE, NEW JERSEY

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING	PTFL974001

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. The cost to improve this housing is 67% of the replacement cost. Utility rebate coordination will be done by Jersey Central Power and Light to ensure units are energy efficient and to enable the base to quality for a utility rebate. Project will also provide handicapped accessible units. Higher supervision, inspection and overhead (SIOH) rate of 6 percent reflects that Army Corps of Engineers is the construction agent.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TINKER AIR FORCE BASE, OKLAHOMA	IMPROVE FAMILY HOUSING PHASE 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.42	711-143	WWYK8703263	4,748

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING PHASE 3	UN	68	59,590	4,052
SUPPORTING FACILITIES				338
LANDSCAPING	LS			(38)
FENCING/PATIO	LS			(23)
BULK STORAGE	LS			(47)
RECREATION	LS			(230)
SUBTOTAL				4,390
CONTINGENCY (5%)				220
TOTAL CONTRACT COST				4,610
SUPERVISION, INSPECTION AND OVERHEAD (3%)				138
TOTAL REQUEST				4,748
MOST EXPENSIVE UNIT $85,000				
AREA COST FACTOR 0.92				

10. Description of Proposed Construction: Improve 68 FY60-69 Appropriated housing units. Work includes replacing deteriorated cabinetry, plumbing, fixtures, doors, windows, trim, floor coverings, and roofing. Floor plans will be reconfigured to improve functional layouts. Square footage added to three undersized unit types (approx. 130 NSF). Neighborhood improvements include fences, sidewalks, Grade mix: 68 E5-E6.

11. REQUIREMENT: 5,526 UN ADEQUATE: 5,399 UN SUBSTANDARD: 376 UN

PROJECT: Improve 68 NCO quarters. (Current Mission)

REQUIREMENT: Renovation of these housing units is rewired to provide adequate living quarters for military mambers and their families assigned to this installation. Three bedroom units require a master bathroom. Additional parking is needed to alleviate overcrowding and generally unsafe conditions resulting from parking on streets. playgrounds, and recreation areas.

CURRENT SITUATION: These appropriated housing units are over 20 years old, meet neither contemporary nor Air Force requirements, and are in need of major interior repair. The functional layouts of the four unit types do not meet USAF standards or fit the requirements of contemporary lifestyles. Kitchens need to be upgraded and re-configured. Plumbing fixtures are old, corroded, and require frequent replacement to prevent leaks and potential ruptures. Electrical systems do not meet current codes and are often overloaded by modern appliances and electrical devices. Wood trim and ceramic tiles are damaged and stained. Carports are architecturally incompatible and provide no privacy or storage space. Asbestos containing floor tile in all units, creating a health hazard to residents.

IMPACT IF NOT PROVIDED: Existing housing units will continue to

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

TINKER AIR FORCE BASE, OKLAHOMA

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING PHASE 3	WWYK8703263

deteriorate. Substandard housing conditions for military members and their families will significantly affect morale, retention of quality personnel, and the many missions of Tinker AFB. Energy consumption will continue to be exorbitant. Occupants will be forced to relocate or live in the presence of asbestos containing materials.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Exterior renovation of 12 units in FY91 under project WWYK91-4177

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, improvement was found to be the most cost efficient over the life of the project. The cost to improve this housing is 68 percent of the replacement cost.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RANDOLPH AIR FORCE BASE, TEXAS	IMPROVE CIRCLE HOUSING, PHASE 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-144	TYMX944000	4,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE CIRCLE HOUSING, PHASE 3	LS			2,649
FY50 APPROPRIATED FAMILY HSG	UN	36	73,580	(2,649)
SUPPORTING FACILITIES				1,096
REMOVE ASBESTOS/LEAD-BASED PAINT	UN	36	30,438	(1,096)
SUBTOTAL				3,745
CONTINGENCY (5%)				187
TOTAL CONTRACT COST				3,932
SUPERVISION, INSPECTION AND OVERHEAD (3%)				118
TOTAL REQUEST				4,050
MOST EXPENSIVE UNIT $140,000				
AREA COST FACTOR 0.87				

10. Description of Proposed Construction: Improve 36 appropriated units. Renovate kitchen/baths/bedrooms. Replace/refinish floors. Remove lead-based paint/asbestos. Install insulation. Replace HVAC/water heaters/ pumps/sewer lines. Repair fireplaces/chimneys. Replace exterior trim. Repair/replace carports. Correct floor plan/unit layout deficiencies. Landscape as required. Repair roofs. Other necessary repairs as

11. REQUIREMENT: 3,280 UN ADEQUATE: 2,167 UN SUBSTANDARD: 757 UN

PROJECT: Provides for improvements and repairs to 36 appropriated units. (current mission)

REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation. It is the third phase of a program to renovate a total of 162 units in Circle Housing. Phases 1 and 2 improved 50 units. Phase 4 is programmed for FY 99.

CURRENT SITUATION: These units are eligible to be listed on the National Register of Historic Places. They were originally constructed in the late 1920's and early 1930's. Some improvements were accomplished in the 1950's but many systems have deteriorated beyond economical repair and require replacement. These units are structurally sound but do not meet current MFH standards. The kitchens require upgrading to provide adequate storage, cabinets, countertop areas and water connection for refrigerator icemakers. Utility rooms require connections for gas clothes dryers. The floor plans/unit layouts need reconfiguration to improve the traffic flow and functionality of the units. The fireplaces and chimneys are deteriorating and require repair. Water heaters, pumps and water lines are old and require replacement. Furnaces/water heaters require exterior venting. HVAC ducts require cleaning. Attics require bat proofing.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

RANDOLPH AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE CIRCLE HOUSING, PHASE 3	TYMX944000

Exterior trim is deteriorating and requires repair/replacement. Units need sealing/painting.

IMPACT IF NOT PROVIDED: Failure to accomplish this project will result in further deterioration of these units. Air Force families will continue to be housed in units that do not meet current standards impacting the quality of life of those families.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: These units are eligible for listing on the National Register of Historic Places. They are structurally sound and the proposed project should provide adequate housing for at least another 20 years without Alternatives are not available for comparative evaluation. An abbreviated economic analysis has been prepared supporting this required improvement project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHEPPARD AIR FORCE BASE, TEXAS	IMPROVE MILITARY FAMILY HOUSING (PH 4)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-111	VNVP974002	4,448

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE MILITARY FAMILY HOUSING (PH 4)	UN	64	58,000	3,712
SUPPORTING FACILITIES				400
PAVEMENTS	LS			(100)
COMMUNITY IMPROVEMENTS	LS			(200)
LANDSCAPING	LS			(100)
SUBTOTAL				4,112
CONTINGENCY (5%)				206
TOTAL CONTRACT COST				4,318
SUPERVISION, INSPECTION AND OVERHEAD (3%)				130
TOTAL REQUEST				4,448
MOST EXPENSIVE UNIT $84,780				
AREA COST FACTOR 0.90				

10. Description of Proposed Construction: Improve 64 Capehart units. Renovate kitchens/baths, upgrade electrical/plumbing/HVAC systems, enlarge master bedroom closets, provide patios and storage sheds, correct floor plan/unit layout deficiencies, provide family rooms, upgrade/paint interiors. Provide landscaping recreational areas, sidewalks, fencing, and other neighborhood improvements.

11. REQUIREMENT: 2,220 UN ADEQUATE: 1,062 UN SUBSTANDARD: 938 UN

PROJECT: Provide improvements and repairs to 64 Capehart housing units. (Current mission)

REQUIREMENT: Provide adequate quarters for military members and their families assigned to Sheppard Air Force Base. This project is phase four of a multi-phased construction program to renovate a total of 489 Capehart units.

CURRENT SITUATION: These units were constructed in 1960 and have received no major renovation, other than routine work and change of occupancy maintenance, since construction. The kitchens require reconfiguration to provide adequate storage, cabinet, and countertop areas. Bathrooms require the replacement of all original fixtures and gas heaters. The existing lighting is inadequate and not energy efficient. The receptacles in the kitchens and bathrooms do not provide ground fault protection. Units have insufficient outside storage.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsatisfactory conditions, adversely affecting morale and retention of quality personnel. The housing units will continue to deteriorate, resulting in increasing operations, maintenance, and repair costs to the Government and inconvenience to residents. The most recent Housing Market Analysis shows an on-base housing deficit of

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

SHEPPARD AIR FORCE BASE, TEXAS

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE MILITARY FAMILY HOUSING (PH 4)	VNVP974002

220 units.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.

WORK PROGRAMMED FOR NEXT THREE YEARS: None.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, improvement was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE, GERMANY	IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-161	VYHK948002	2,484

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	44	19,425	855
SUPPORTING FACILITIES				1,442
REPLACE BALCONIES	EA	44	9,875	(435)
REPLACE ROOF (2 ROOFS/22 UNIT EA)	EA	44	22,875	(1,007)
SUBTOTAL				2,297
CONTINGENCY (5%)				115
TOTAL CONTRACT COST				2,412
SUPERVISION, INSPECTION AND OVERHEAD (3%)				72
TOTAL REQUEST				2,484
MOST EXPENSIVE UNIT $156,655				
AREA COST FACTOR 1.00				

10. Description of Proposed Construction: improve 44 units. Replace roof with pitched roof which meets German building code, and install dormer type windows for 8 attic units. Repair interior walls/finishes, upgrade kitchens and bathrooms, and upgrade electrical systems in 8 attic units. Replace/enlarge 36 existing balconies to 4' x 6' and construct 8 new balconies for attic units.

11. PROJECT: Improve 44 attic family housing units. (Current Mission)
REQUIREMENT: Project is required to provide adequate quarters for military members and their dependents in 8 attic units. Project provides balconies on 8 units to alleviate second fire entrance/exit deficiency. Project will replace 36 balconies due to structural relationship to 8 new balconies. Replacement of 36 balconies will include enlargement to provide balconies that are functional to use. Units require 110V electrical system. Project renovates 8 attic unit interiors to meet today's living standards.
CURRENT SITUATION: These units were constructed in 1955 and have not received any major renovation other than minor maintenance and repairs. The roof system does not meet German code and requires a different pitch. The 8 attic kitchens are old and deteriorated with loose tiles and unsightly cabinets and inefficient counter space. Electrical system is 220V and the occupant must use transformers to run appliances. Window seals leak air and continually have moisture built up. Bath tubs continue to leak despite constant repairs. Bathroom fixtures are old and seals are separating from the walls. The interior surfaces are scratched and deeply gouged. The radiators are old and do not provide adequate heating. The 8 attic units do not have a second exit violating National Fire Code 101, Life Safety Code. Existing 36 balconies are 2' x 4' providing little

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION
SPANGDAHLEM AIR BASE, GERMANY

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING	VYHK948002

functional space.
IMPACT IF NOT PROVIDED: Units will continue to deteriorate rapidly, resulting in increasing operations, maintenance and repair costs to the Government and inconvenience to residence. Low morale and retention problems can be expected if such conditions are permitted to continue.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: This project is not eligible for NATO funding. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, improvement was found to be the most cost efficient over the life of the project.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VOGELWEH AIR BASE, GERMANY	IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-161	YANB944538	2,282

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING				
SUBTOTAL	UN	22	95,911	2,110
CONTINGENCY (5%)				2,110
TOTAL CONTRACT COST				106
SUPERVISION, INSPECTION AND OVERHEAD (3%)				2,216
TOTAL REQUEST				66
				2,282
MOST EXPENSIVE UNIT $128,240				
AREA COST FACTOR 1.00				

10. Description of Proposed Construction: Improve 22 family housing units. Install bathroom, dishwashers, stove exhaust hoods and fire hose connections. Construct storage area. Repair and paint interior surfaces. Replace kitchen cabinets, counter tops sinks and fixtures; bathroom commodes, showers, vanities and fixtures; unit closets, doors, radiators, utility systems, door bells, intercom and antenna systems.

11. PROJECT: Improve 22 family housing units.

REQUIREMENT: Project is required to provide adequate quarters for military members and their families. Project extends the life of building components, provides the authorized space for occupants, increases energy efficiency of the units, and modernizes amenities to "whole house" standards.

CURRENT SITUATION: These units were constructed in 1954 and have not received any major renovation work. According to AFM 88-25, these units are authorized an additional bathroom. The occupants do not have a storage area to store lawnmowers, bicycles, BBQ grills etc. The kitchen interior surfaces are stained and scratched. The kitchen cabinets and counter tops do not provide adequate storage space. The kitchen sinks and fixtures are worn out. The bathroom commodes, showers, vanities, and fixtures are leaking creating water stains on the floor and walls. The radiators and utility systems are no longer economical to repair. The electrical wiring is frayed causing a possible safety hazard.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsuitable conditions, affecting morale and the retention of quality personnel. The USAF will continue to spend fund conducting piecemeal maintenance and repairs for the remaining life of the units.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

VOGELWEH AIR BASE, GERMANY

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING	YANB944538

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.
WORK PROGRAMMED FOR NEXT THREE YEARS: None.
ADDITIONAL: An economic analysis was prepared comparing the alternatives of construction, improvements, leasing, and status quo operation. Based on the net present values and benefit of the respective alternatives, improvement was found to be the most effective over the cost of the project. This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of the Military Handbook 1190, "Facility Planning and Design Guide."

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	IMPROVE FAMILY HOUSING (PHASE 8)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-111	AJJY964403R1	8,767

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING (PHASE 8)	UN	62	116,770	7,240
SUPPORTING FACILITIES				867
NEIGHBORHOOD IMPROVEMENTS	LS			(295)
PAVEMENTS	LS			(328)
ASBESTOS/LEAD-BASED PAINT COMPLIANCE	LS			(244)
SUBTOTAL				8,107
CONTINGENCY (5%)				405
TOTAL CONTRACT COST				8,512
SUPERVISION, INSPECTION AND OVERHEAD (3%)				255
TOTAL REQUEST				8,767
MOST EXPENSIVE UNIT $212,238				
AREA COST FACTOR 2.24				

10. Description of Proposed Construction: Improve 62 family housing (inc. one GOQ) units. Work includes enlarging the master bedroom, renovation of kitchen, bathroom, plumbing and electrical systems, and typhoonshutters; construction of outside storage and installation of package A/C system. Environmental work includes asbestos and lead based paint compliance. Neighborhood improvements include bus shelter,

11. REQUIREMENT: 1,735 UN ADEQUATE: 402 UN SUBSTANDARD: 1,410 UN

PROJECT: Improve family housing units. (Current Mission)

REQUIREMENT: This project is required to provide modern and efficient housing for military members and their dependents stationed at this installation. Housing must be upgraded to meet current life safety codes and to provide a comfortable and appealing living environment comparable to the off-base civilian community. This is the seventh of multiple phases to upgrade housing units. 347 units have been upgraded or are approved in previous phases and 1410 units remain to be accomplished. All units will meet whole house standards and are programmed in accordance with phase seven of the Housing Community Plan. Renovated housing will provide modern kitchens, baths and interior configurations. Conversion of 27 units from 3 to 4 bedroom units. Whole neighborhood improvements will be provided.

CURRENT SITUATION: These housing units were constructed in 1960. Many modern amenities are lacking. Original appliances, fixtures, and finishes have outlived their useful life. General structures are old and deteriorated due to Guam's harsh tropical environment. Closets, floor tiles and baths are in dilapidated condition. Electrical and plumbing services are undersized for modern needs. Units lack sufficient bathrooms for the number of bedrooms and no outside storage is provided.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION
ANDERSEN AIR FORCE BASE, GUAM

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING (PHASE 8)	AJJY964403R1

Additionally, the neighborhood lacks the non-dwelling facilities needed to provide appropriate standards of living in accordance with the whole neighborhood concept.

IMPACT IF NOT PROVIDED: Members will continue to be housed in unsatisfactory and undersized units with adverse effects on morale and retention. Units will remain out of compliance with Air Force standards of size, livability, and life safety. Yearly maintenance cost will continue to increase.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.

WORK PROGRAMMED FOR NEXT THREE YEARS: None.

ADDITIONAL: This project meets the criteria/scope specified in Part II of the Military Handbook 1190, "Facility Planning and Design Guide." All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore no economic analysis was needed or performed. The initial cost percentage of improvement versus replacement cost is 56 percent. The Jun 94 Housing Market Analysis for Andersen AFB contains a projected housing surplus of 77 units.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAF CROUGHTON, UNITED KINGDOM	IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.42	711-151	EXSW964012	1,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	25	45,400	1,135
SUPPORTING FACILITIES				252
FIRE SPRINKLERS	UN	25	3,120	(78)
STORAGE SHEDS	UN	25	1,560	(39)
UTILITIES	UN	25	5,400	(135)
SUBTOTAL				1,387
CONTINGENCY (5%)				69
TOTAL CONTRACT COST				1,456
SUPERVISION, INSPECTION AND OVERHEAD (3%)				44
TOTAL REQUEST				1,500
MOST EXPENSIVE UNIT $60,000				
AREA COST FACTOR 1.00				

10. Description of Proposed Construction: Provides general interior and exterior renovation and moderization of 25 MFH units. Upgrades/replaces utilities. Constructs a second bathroom and adds utility room. Repairs wall finishes and floors. Replaces doors. Upgrades kitchens, bathroom, and living areas. Provides carpet, storm porches, patios, storage, and landscaping. Installs fire detection, Improves driveways and pavements.

11. REQUIREMENT: 276 UN ADEQUATE: 0 SUBSTANDARD: 276 UN

PROJECT: Improve 25 Military Familiy Housing units RAF Croughton housing area. (Phase I) (Current Mission)

REQUIREMENT: The project is required to provide modern, efficient housing for military personnel and their families station at RAF Croughton and RAF Barford Saint John communication sites. The housing must be upgraded to meet current life safety codes and housing standards. Project will provide a comfortable and an appealing living environment comparable to the off-base civilian community. This is one of mulitple phases to upgrade 276 houses. The remaining 251 units are included in out year projects. Improved housing will provide a modern kitchen, living room, family room, bedroom, and bath configuration, with interior and exterior storage in accordance with current space authorizations. Centralized garage parking will be provided due to the absence any of suitable space adjacent to each housing unit.

CURRENT SITUATION: These housing units were constructed in 1957. These units have deteriorated due to age and extensive use. These units have not had any major upgrades since construction and do not meet the needs of todays families, nor do they provide a modern home environment. Kitchen and bathroom cabinets and fixtures severely deteriorated and are obsolete. Counter tops are warped, stained, and separating at the seams. Plumbing

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

RAF CROUGHTON, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING	EXSW964012

and lighting fixtures have deteriorated. The electrical systems do not meet modern construction codes posing safety hazards. Residual current circuit protection is not provided for power circuits, kitchens, and exterior lighting. Flooring is stained, loose, and mismatched dur to non-availability of original materials for replacement. Windows and isulation require upgrade. The units have inadequate living space and storage, and no patio or backyard privacy. Suitable affordable off-base housing is not available.

IMPACT IF NOT PROVIDED: Units will continue to deteriorate, resulting in increasing operations, maintenance, and repair costs to the Government and pose inconvenient living conditions to military personnel and their families. Low morale and retention problems can be expected is such conditions are permitted to continue. Suitable off-base housing is not expected to increase in availability.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAF LAKENHEATH, UNITED KINGDOM	IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-181	MSET944002	2,864

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	32	82,775	2,649
SUBTOTAL				2,649
CONTINGENCY (5%)				132
TOTAL CONTRACT COST				2,781
SUPERVISION, INSPECTION AND OVERHEAD (3%)				83
TOTAL REQUEST				2,864
MOST EXPENSIVE UNIT $89,500				
AREA COST FACTOR 1.00				

10. Description of Proposed Construction: Improve 32 units. Reconfigure entrance hallway, laundry room, half bath, and guest closet. Replace electrical wiring and fixtures. Redecorate throughout. Install natural gas service. Replace roofs, recondition exteriors and repaint. Replace external water supply and drainage systems. Construct patios, privacy fences, and landscape.

11. PROJECT: Improve 32 family housing units.
REQUIREMENT: Project is required to provide adequate quarters for military members and their dependents assigned to RAF Lakenheath. Project extends the life of the building components, provides the authorized space for occupants, increases energy efficiency of the units, and modernizes amenities.
CURRENT SITUATION: These units were constructed in 1960 and have not received any major renovation. These units do not have an entrance hallway or guest closets on the first floor. The kitchens lack garbage disposals and stove exhaust hoods. The kitchens require more countertop area for workspace and cabinets for adequate storage. The bathroom commodes, showers and sinks are deteriorated and require constant repair. The bathroom tiles are loose and stained. The existing single pane windows are energy inefficient and allow water seepage. The units have oil heat which is less economical than natural gas heating. The electrical wiring is old and requires continual repair. The sewage and drainage lines are partially blocked and broken in certain areas. Since the units are close together, yard fencing is required to enhance occupant privacy.
IMPACT IF NOT PROVIDED: Air Force members and their families would continue to be housed in unsuitable conditions, affecting morale and the

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

RAF LAKENHEATH, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING	MSET944002

retention of quality personnel. The US Government will continue to spend funds conducting piecemeal maintenance and repairs for the remaining life of the units.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.

WORK PROGRAMMED FOR NEXT THREE YEARS: None.

ADDITIONAL: An economical analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operations. Based on the net present values and benefits of the respective alternatives, improvement was found to be the most cost effective over the life of the project. This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, Facility, Planning and Design Guide.

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAF MILDENHALL, UNITED KINGDOM	IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-181	QFQE944002	2,072

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	53	32,784	1,738
SUPPORTING FACILITIES				178
CARPORT	EA	53	2,870	(152)
STORAGE SHED	EA	53	490	(26)
SUBTOTAL				1,916
CONTINGENCY (5%)				96
TOTAL CONTRACT COST				2,012
SUPERVISION, INSPECTION AND OVERHEAD (3%)				60
TOTAL REQUEST				2,072
MOST EXPENSIVE UNIT $51,012				
AREA COST FACTOR 1.00				

10. Description of Proposed Construction: Improve 53 family housing units. Extend existing pitch roof to create a carport and utility room. Construct storage shed. Replace electrical circuits Upgrade kitchen and bathrooms. Repair and paint all interior surfaces and install carpets. Maintain and repair emergency fire fighting water tanks. Repair fences and roads.

11. PROJECT: Improve 53 family housing units. (Current Mission).
REQUIREMENT: Project is required to provide adequate quarters for military members and their dependents assigned to RAF Mildenhall. Project extends the life of building components, provides the authorized space for the occupants, increases energy efficiency of the units, and modernizes amenities to "whole house" standards.
CURRENT SITUATION: These units are in urgent need of repair and do not meet current MFH standards. The units do not provide adequate space for the occupants. Due to limited storage space, many items are stored in the occupant's living space. There is no storage for bicycles, barbecue grills, children toys, lawnmowers, etc. Both the 240 and 110 volt wiring are unreliable and outages are a common occurance. Both the kitchens and bathroom fixtures are out-of-date and require constant repair. The MFH roads have deteriorated increasing the likelihood of vehicle damage and accidents. The MFH perimeter fencing has deteriorated no longer providing a secure area. In addition, the deteriorated fence has given children access to the emergency fire fighting water tanks creating a continuous safety problem.
IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsuitable conditions, affecting morale and the retention of quality personnel. The members will be living in crowded

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

RAF MILDENHALL, UNITED KINGDOM

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE FAMILY HOUSING	QFQE944002

units with inadequate storage space. The electric wiring will continue to deteriorate until it becomes unuseable and dangerous. The kitchen and bathroom fixtures will continue to deteriorate so they no longer provide the occupant with suitable standards. The road ways will continue to be unsafe and the fencing will not provide a secure environment. The US Goverment will continue to spend funds conducting piecemeal maintenance and repairs for the remaining life of the units.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, improvement, leasing and status quo operations. Based on the net present values and benefits of the respective alternatives, improvement was found to be the most cost effective over the life of the project. This project is not eligible for NATO Funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, Facility Planning and Design Guide.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

ADVANCE PLANNING AND DESIGN

Program (In Thousands)
FY 1997 Program $9,590
FY 1996 Program $8,989

Purpose and Scope

This program provides for preliminary studies to develop additional family housing facilities, one time multi-phase design, and housing community plan (HCP) developments; studies for site adaptation and determination of type and design of units; and working drawings, specifications, estimates, project planning reports and final design drawings of family housing construction projects. This includes the use of architectural and engineering services in connection with any family housing new or post acquisition construction program.

Program Summary

Authorization is requested for:

(1) Advance planning and design for future year housing programs;

(2) FY 97 Appropriation of $9,590,000 to fund this effort as outlined in the following exhibit:

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VARIOUS AIR FORCE BASES	FAMILY HOUSING PLANNING PLANNING AND DESIGN

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-000	XXXX97000PAD	9,590

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FAMILY HOUSING ADVANCE PLANNING AND DESIGN	LS			9,590
SUBTOTAL				9,590
TOTAL CONTRACT COST				9,590
TOTAL REQUEST				9,590

10. Description of Proposed Construction: Architect-engineer services, surveys, fees, etc., in connection with advance planning and design of family housing dwelling units and properties included in or proposed for the Air Force Family Housing Account.

11. PROJECT:

REQUIREMENT: The funds requested are necessary to procure architect-engineer services to make site and utility investigations; one time multi-phase design, and housing community plan (HCP) developments; for the preparation of design and specifications of advance plans for future year housing programs in connection with any family housing new or post acquisition construction programs.

IMPACT IF NOT PROVIDED: The funds requested are neccessary to support the development of the Housing Community Plans and to support the new construction and post acquisition construction programs.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

OPERATIONS, UTILITIES AND MAINTENANCE
(Excluding Leasing and Debt)

Program (In Thousands)
FY 1996 Program $733,519
FY 1997 Program $721,361

Purpose and Scope

a. Operations. This portion of the program provides for operating expenses in the following sub-accounts:

(1) Management. Includes installation-level management such as housing office operations, quality assurance evaluators, administrative support, community liaison, and annual service fee paid to the Corporation-Trust Company to provide the required corporate presence in Delaware. United States Air Force Housing, Inc., continues as the entity holding title to Capehart and Wherry real property. Housing referral costs are also included; the housing referral program assists personnel to find quarters in the private sector and implements the Fair Housing Act of 1968.

(2) Services. Provides basic support services such as refuse collection and disposal; fire and police protection; entomology and pest control; snow removal, street cleaning.

(3) Furnishings. Procures household equipment (primarily stoves and refrigerators) and, in limited circumstances, furniture; controls furnishings inventories; maintains and repairs such items.

(4) Miscellaneous. Includes mobile home hookups, leased office and warehouse space supporting family housing, payments to other Federal agencies or foreign governments to operate Permit Housing units occupied by Air Force personnel, and similar costs.

b. Utilities. Includes all utilities serving family housing, purchased and base produced, except occupant purchased utilities such as telephone and cable TV.

c. Maintenance. Provides upkeep of family housing real property, as follows:

(1) Maintenance/Repair of Dwellings. Service calls, routine maintenance, repairs and replacement.

(2) Exterior Utilities. Maintenance and repair of water, sewer, electric, heat and gas lines located within family housing areas.

(3) Other Real Property. Upkeep of grounds, roads, parking areas, and other property for the exclusive use of family housing not discussed above.

(4) Alteration and Additions. Minor alterations to dwellings or housing support facilities. Larger scope or higher dollar value items are funded in the construction program.

Considering the effects of actual base closures and overseas force structure draw downs, the Air Force family housing budget requests minimum essential resources to provide military families with housing either in the private market, through assistance from a housing referral office, or in government housing. Increased emphasis has been placed on the proper funding of the family housing operations and maintenance program. The Air Force's FY 1997 Operations and Maintenance program includes the following areas of emphasis:

* Maintain the livability of the existing housing inventory worldwide.

* Utility consumption per unit is being reduced due to a program of energy goals which places increased management emphasis on conservation and whole house improvement efforts.

* The continued effort to identify adequate housing in communities that is affordable for the military member. Where shortages exist, housing surveys are accomplished and project proposals are developed to request new construction or leasing of additional housing for military families when needed.

* Funding for government appliances and furniture consistent with cost/benefit studies, the delivery of new housing units which need government supplied appliances and the redistribution of appliances from closure bases.

* Reduction of furnishings inventories in accordance with base closure schedules. Redistribution of excess furnishings from closure bases to the other bases remaining open.

* Continuation of the Quarters Cleaning Initiative (QCI) which helps limit expensive overseas temporary housing allowances (TLA) to three days in lieu of the 10-day maximum. As a result, QCI program costs are more than offset by known large savings in TLA accounts. The program also shortens the period between occupancy, which creates savings in other housing allowance accounts.

* Emphasizes maintenance and repair activity scheduled along with ``whole house'' improvements to obtain the greatest enhancement in livability while increasing the useful life of housing units, with the minimum capital investment.

* Continuing the special effort to lower operations and maintenance costs in high cost quarters.

This budget request is for funds needed to meet must pay operations and utilities expenses, as well as maintenance and repair of our existing housing inventory. The Air Force shares the concerns of Congress to improve support to military families and to properly maintain the housing inventory. This budget supports a long-range program responding to Congressional desires while considering the current environment of budget restraint.

Operations and Maintenance Program Summary - Highlights
Authorization/Appropriation is requested in FY 1997 for $721,361,000. This amount, together with estimated reimbursements of $10,858,000, will fund the FY 1997 Operations and Maintenance program of $732,219,000.

A summary of the funding program for FY 1997 is as follows ($ in thousands):

Operations Request	Util Request	Maint Request	Ttl Direct Request	Reimbursement	Total Program
$125,289	$167,985	$428,087	$721,361	$10,858	$732,219

EXHIBIT FH-2 Worldwide
MAJCOM: all

(Excludes Leases)

Inventory Data	FY95		FY96		FY97	
Units in Beginning of Year	122,205		116,733		111,356	
Units at End of Year	116,733		111,356		111,414	
Average Inventory for Year	119,469		114,045		111,385	
Funding Requirements($000)	**Total Cost**	**Unit Cost**	**Total Cost**	**Unit Cost**	**Total Cost**	**Unit Cost**
Operations (Direct)						
Management	49,775	417	51,400	451	51,185	460
Services	31,116	260	32,391	284	32,257	290
Furnishings	35,607	298	36,377	319	36,228	325
Miscellaneous	4,866	41	5,642	49	5,619	50
SubTotal Gross Oblig.	121,364	1,016	125,810	1,103	125,289	1,125
Anticipated Reimbursements	1,856	16	1,926	17	1,590	14
Direct Obligation. Operations	119,508	1,000	123,884	1,086	123,699	1,111
Utilities - (TOA)	172,783	1,446	171,852	1,507	167,985	1,508
Anticipated Reimbursements	9,469	79	9,403	82	7,763	70
Direct Obligation Utilities	163,314	1,367	162,449	1,424	160,222	1,438
Maintenance						
M&R Dwellings	299,691	2,509	312,427	2,740	306,313	2,750
M&R Ext. Utilities	59,644	499	57,826	507	57,154	513
M&R Other Real Property	33,738	282	32,624	286	32,219	289
Alter & Add.	34,623	290	32,979	289	32,401	291
SubTotal Gross Obligations	427,696	3,580	435,856	3,822	428,087	3,843
Anticipated Reimbursements	1,796	15	1,822	16	1,505	14
Direct Obligation Maintenance	425,900	3,565	434,034	3,806	426,582	3,830
Grand Total, O&M - TOA	721,843	6,042	733,518	6,432	721,361	6,476
Grand Total, O&M - NOA	708,722	5,932	720,367	6,317	710,503	6,379

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Operations ($ in Thousands)

FY 1996 Request	FY 1997 Request
$125,810	$125,289

The FY 1997 program represents Air Force family housing requirements and was developed using OSD/OMB approved inflation and foreign currency formulation rates. Adjustments have been made for actual base closures and proposed overseas force structure draw downs. Each program sub-account is described in detail in the following analysis:

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Management. The Management account includes installation-level management such as housing office operations, quality assurance evaluators, administrative support, community liaison, and annual service fee paid to the Corporate-Trust Company to provide the required corporate presence in Delaware. Housing referral costs are also included; the housing referral program assists personnel to find quarters in the private sector and implements the Fair Housing Act of 1968.

1.	FY 1996 President's Budget (Amended):	$45,154
2.	Congressional Adjustments:	None
3.	FY 1996 Appropriated Amount:	$45,154
4.	Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers: Added requirement for 500 units, Hunley Park, without associated funding	None
7.	Program Increases: a. Housing Management Analysis (HMA) Studies and development of a computerized system to increase service to customers and improve management data	$3,759
	b. Contract Computer Programming for Housing Information Management System (HIMS), Program Development and related TDYs/Tiger Team Implementation	$2,487
8.	Program Decreases:	None
9.	FY 1996 Current Estimate:	$51,400
10.	Price Growth: a. Inflation	$1,131
	b. Foreign Currency Fluctuation rate adjustment	$ 238
11.	Functional Program Transfer:	None
12.	Program Increases: Development of computer aided training software	$2,718

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13.	Program Decreases:	
	a. Non-Pay Purchase Inflation adjustment	$-3,102
	b. Base Closure, Drawdowns, Demolitions (2,660 units)	$-1,200
14.	FY 1997 Budget Request:	$51,185

Analysis of Change in Management

With fewer houses to support, the Management requirement is reduced. March AFB will be closed in FY96 as a result of Round III Base Closure and Round IV starts in FY97 with closure of Reese AFB.

The Management sub-account is a relatively stable program and is predominately fixed costs such as salaries and required administrative support supplies and equipment. As part of our management activity, we are developing new computer based work tools to improve customer service and management of resources. This effort includes further refinement of the Housing Information Management System (HIMS), additional software development, testing, and operational implementation by FY98. This system improves customer services and data sharing for overall program management, and provides interactive training to ensure easy field acceptance and use.

The Management account is not per unit specific since there is a basic level of support and manning for the housing office regardless of the number of units. The request includes increases for inflation. The increases are offset by a decrease in housing management offices as a result of base closure and drawdown actions.

Services. Provides basic support services such as refuse collection and disposal; fire and police protection; entomology and pest control; snow removal; street cleaning.

Military Family Housing Activities are affected by many new environmental standards. The environmental legislative changes from states and foreign country's have evolved quicker than planned, leading to a highly uncertain ability to predict program growth. New initiatives to control lead based paint, asbestos, leak detection on underground heating fuel storage tanks, spill/overflow protection and corrosion control are also covered within this account. Increases to land fill costs are programmed however we anticipate these to continue to increase in the future.

1.	FY 1996 President's Budget (Amended):	$33,177
2.	Congressional Adjustments:	None
3.	FY 1996 Appropriated Amount:	$33,177
4.	Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers: Added requirement for 500 units, Hunley Park, without associated funding	None
7.	Program Increases:	None
8.	Program Decreases: Program realignment to arrest Deferred Maintenance and Repair (DMAR)	$ - 786
9.	FY96 Current Estimate:	$32,391
10.	Price Growth: a. Inflation b. Foreign Currency Fluctuation rate adjustment	 $ 713 $ 150
11.	Functional Program Transfers:	None
12.	Program Increases: Additional landfill tipping fees/refuse disposal	$ 2,010

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13.	Program Decreases:	
	a. Non-Pay Purchase Inflation	$-2,252
	b. Base Closure, Drawdowns, Demolitions (2,660 units)	$- 755
14.	FY 1997 Budget Request:	$32,257

Analysis of Changes in Services

March AFB (710 units) will be removed from inventory in FY96/97 as a result of Round III Base Closure and Round IV starts in FY97 with closure of Reese AFB.

The Services budget request has been increased by the added cost of contracts for refuge removal which are being modified to accommodate more costly environmental standards. This effort is primarily for increased tipping fees (landfill dumping costs) because of additional environmental requirements for safer containment of landfill runoff. These increases are offset by reduction in services for bases closing in FY 1997.

Furnishings. Includes the procurement for initial issue or replacement of household equipment (primarily stoves and refrigerators) and in limited circumstances, furniture; the control, moving and handling of furnishings inventories; and the maintenance and repair of such items.

This FY 1997 estimate reflects the ``sense of Congress'' for increased burden sharing. Force structure reductions overseas has allowed the Air Force to reduce overseas furnishings inventories. While the exact number of military families and timing of the overseas draw down is still occurring, continued support of bases which will remain open is necessary to maintain adequate backup stock of appliances and furnishings for our overseas dependent families.

Also, certain furniture items will continue to be needed. Loaner sets of furniture are issued to military families overseas to let them occupy permanent quarters prior to the arrival of personally owned furniture and to let personnel stay in permanent quarters after furniture is shipped due to a change of station. Loaner sets reduce the cost of Temporary Quarters allowances which makes loaner furniture very cost effective. Other items of household furnishings normally built into U.S. houses which are limited or not available in foreign countries, such as wardrobes (clothes closets), kitchen cabinets or appliances, are issued to military families.

Leases in Europe require closets and cabinets to be issued along with appliances since rental units overseas do not have the same accommodations available as in the states.

The furnishings account funds essential furnishings at levels consistent with cost/benefit studies and the needs of the Air Force. Much of the funding requested in the furnishings account results from an analysis of the most economical use of funds for the government and avoids costs in other accounts such as military allowances and other support appropriations.

1.	FY 1996 President's Budget (Amended):	$43,000
2.	Congressional Adjustments:	None
3.	FY 1996 Appropriated Amount:	$43,000
4.	Supplementals:	None

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5.	Price Growth:	None
6.	Functional Program Transfers: Added requirement for 500 units, Hunley Park, without associated funding	None
7.	Program Increases:	None
8.	Program Decreases: Energy Conservation savings realigned to Maintenance to arrest DMAR	$-6,623
9.	FY96 Current Estimate:	$36,377
10.	Price Growth: a. Inflation b. Foreign Currency Fluctuation rate adjustment	$ 800 $ 169
11.	Functional Program Transfers:	None
12.	Program Increases: Added mission beddown and realignment requirements	$ 1,926
13.	Program Decreases: a. Non-Pay Purchase Inflation adjustment B. Base Closure, Drawdowns, Demolitions	$-2,195 $- 849
14.	FY 1997 Budget Request:	$36,228

Analysis of Changes in Furnishing

With fewer houses to support, the Furnishings requirement is reduced. March AFB (710 units) will be removed from inventory in FY96/97 as a result of Round III Base Closure and Round IV starts in FY97 with closure of Reese AFB. However, the build-up at Aviano has required additional furniture.

This FY 1997 Budget request takes into consideration force structure drawdowns and closures and related shifts of furnishings. Even so, this request addresses the needs of newly constructed and leased housing units being added to the Air Force inventory. Mission realignment and buildup of activities in Europe, with focus on increases in concurrent family travel at Aviano AB, Italy is occurring. With more families to support at Aviano, the furnishings requirements have increased in this part of Europe.

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Miscellaneous. Includes mobile home hookups, leased office and warehouse space supporting family housing, payments to other Federal agencies or foreign governments (i.e. United Kingdom, Australia) to operate Permit Housing units occupied by Air Force personnel, and similar costs.

1.	FY 1996 President's Budget (Amended):	$ 5,678
2.	Congressional Adjustments:	None
3.	FY 1996 Appropriated Amount:	$ 5,678
4.	Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers: Added requirement for 500 units, Hunley Park, without associated funding	None
7.	Program Increases:	None
8.	Program Decreases:	$ - 36
9.	FY96 Current Estimate:	$5,642
10.	Price Growth: a. Inflation b. Foreign Currency Fluctuation rate adjustment	 $ 125 $ 26
11.	Functional Program Transfers:	None
12.	Program Increases:	None
13.	Program Decreases: a. Non-Pay Purchase Inflation b. Base Closure, Drawdown, Demolitions	 $- 44 $- 130
14.	FY 1997 Budget Request:	$5,619

Analysis of Changes in Miscellaneous

March AFB (710 units) will be removed from inventory in FY96/97 as a result of Round III Base Closure and Round IV starts in FY97 with closure of Reese AFB.

There are no programmatic increases above inflation.

Utilities. This project provides for all utilities consumed in government-owned family housing. Included is electricity, heating, water, and sewage and waste systems. MFH facilities consume approximately one-fifth of Air Force facility energy usage; therefore, MFH residents and management share a significant role in the achievement of Air Force energy reduction goals. Since MFH occupants are not billed for their energy consumption, conservation motivation must be rooted in other than financial incentives. The single most effective incentive is command emphasis. Energy projects to install set back thermostats, water heater jacket insulation and insulation of crawl and attic spaces have had good results toward the attainment of Air Force energy conservation goals.

1.	FY 1996 President's Budget (Amended):	$197,539
2.	Congressional Adjustments:	None
3.	FY 1996 Appropriated Amount:	$197,539
4.	Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers:	None
7.	Program Increases:	None
8.	Program Decreases:	
	a. Decrease due to increased emphasis on energy conservation. Savings realigned to Maintenance to arrest DMAR	$- 1,672
	b. Predicted utility increase for FY95 was not realized. Program recalculated based on current anticipated execution and historical data. Difference realigned to Maintenance to arrest DMAR	$-24,015
9.	FY96 Current Estimate:	$171,852
10.	Price Growth:	
	a. Inflation	$ 3,781
	b. Foreign Currency Fluctuation rate adjustment	$ 794
11.	Program Increases:	
	Cooperative energy agreement with Arkansas	$ 5,718

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12.	Program Decreases:	
	a. Non-Pay Purchase Inflation adjustment	$-10,372
	b. Base Closure, Drawdowns, Demolition	$- 3,788
13.	FY 1997 Budget Request:	$167,985

Analysis of Changes in Utilities

With fewer houses to support, the Utility requirement is reduced. March AFB (710) units will be removed from inventory in FY96/97 as a result of Round III Base Closure and Round IV starts in FY97 with closure of Reese AFB.

Utility consumption continues to decline as seen in the FY97 program request. One cost effective initiative involves a cooperative effort with Arkansas Power and Light Company on an energy conservation project to install ground source heat pumps which will result in long term energy consumption reductions. Also, the Air Force's whole-house revitalization policy includes in each project energy saving technology as a primary part of the effort.

The requirement for FY 1997 is based on historical obligation trends which continue to be influenced by mild weather and energy conservation savings resulting from whole house improvements and energy conservation projects. The funding percentage change from FY96 to FY97 is below inflation. The consumption usage stream shown in the following table is consistent with the Air Force goals of reducing energy consumption and costs.

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UTILITIES (000K)

ENERGY CONSUMPTION	FY96	FY97
Electricity	1,751	1,740
Fuel Oil (Bbls)	390	388
Natural Gas (KCF)	6,330	6,290
Coal (MBTUs)	356	352
Purchased Steam (MBTUs)	578	576

The Budget request for utilities in FY 1997 includes the costs of electricity, coal, gas, fuel oil, water and sewage treatment. Overall, utility rates are stabilizing. Continued conservation efforts are reducing consumption and costs. The primary reason for cost growth is due to inflation which is offset by continued emphasis on conservation of utilities.

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Maintenance. Includes service calls, change of occupancy rehabilitation, routine maintenance, preventive maintenance, interior and exterior painting, and major repairs. Provides upkeep of family housing real property.

1.	FY 1996 President's Budget (Amended):	$408,971
2.	Congressional Adjustments:	None
3.	FY 1996 Appropriated Amount:	$408,971
4.	Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers: Added requirement for 500 units, Hunley Park, without associated funding	None
7.	Program Increases: Program Realignment Increased emphasis in maintenance to arrest the escalating growth in the backlog of Deferred Maintenance and Repair (DMAR)	$ 26,885
8.	Program Decreases:	None
9.	FY 1996 Current Estimate:	$435,856
10.	Price Growth: a. Inflation b. Foreign Currency Fluctuation rate adjustment	$ 9,589 $ 2,342
11.	Fuctional Program Transfer:	None
12.	Program Increases:	None
13.	Program Decreases: a. Non-Pay Purchase Inflation adjustment b. Base Closure, Drawdowns, Demolitions (-2,660 units) c. Host Nation Support adjustment	$- 6,035 $-13,115 $- 550
14.	FY 1997 Budget Request:	$428,087

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Analysis of Changes in Maintenance Program

March AFB (710 units) will be removed from inventory in FY96 as a result of Round III Base Closure and BRAC IV starts in FY97 with closure of Reese AFB (398 units).

Previously limited maintenance funding and a high occupant turnover has accelerated deterioration of the Air Force's aging housing inventory. Constrained funding has resulted in a greater reliance on temporary fixes which has in the long run only exacerbated the deterioration of our housing units. In addition, the infrastructure which supports the units is now beyond its projected economic life at most of our installations. Several systems have failed and many are on the verge of failure.

The family housing assets maintained by the Air Force are valued at over $12.5 billion in replacement costs. To ensure that these facilities can be occupied continuously requires sound property management for preservation and protection of this major investment. The past decline of the dollar value overseas and current budget reductions have had an adverse impact on the Air Force's program to contain the growth of deferred maintenance.

This budget reflects the Air Force corporate decision to increase emphasis on maintenance and repair of our dwellings to ensure availability of quarters which meet existing standards. The method we use to measure our effectiveness against these standards is to track the impact of the funded program against Deferred Maintenance and Repair (DMAR). When funding is lower than maintenance requirements, asset deterioration accelerates and the amount of affected housing units and infrastructure grows. This growth is above inflation and also increases the scope of future programmed work. More emergency repairs occur which are disruptive, costly, and man-hour intensive. The backlog also generates other jobs (i.e., delayed roof projects require additional work to fix leaks, patch and paint ceilings, etc.).

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MILITARY FAMILY HOUSING
SUMMARY OF BACKLOG OF
DEFERRED MAINTENANCE AND REPAIR (DMAR)
FY 1997 BUDGET REQUEST
($ in Millions)

	FY95	FY96	FY97
Beginning of Year DMAR	865	901	944
Revitalization Reduction	-42	-49	-64
BRAC IV Reduction	0	0	-1
DMAR Annual Growth (Inflation & Asset Deterioration)	65	68	71
Revised Beginning of Year DMAR	888	920	950
Annual Maintenance Requirement	441	459	463
Total Maintenance Requirement	1,329	1,379	1,413
Annual Maintenance Funding	428	435	428
End of Year Backlog	901	944	985
Backlog Reduction (Growth)	(36)	(43)	(41)
DMAR per Dwelling Unit ($000)	7.5K	$8.3K	8.9K

The Total Maintenance requirement reflected on this chart reflects only those projects which are required to meet and sustain approved standards. This chart reflects the decision to fund maintenance at a level which arrests DMAR growth as much as possible within funding constraints.

In a 20 Jun 95 DoD Inspector General Quality of Life Survey, 73% of DoD-wide Installation Commanders expressed concern about Family Housing and its impact on personnel performing the mission on their installations. Family Housing received the highest ranked response at 73%, far outpacing the next highest concern which was 34% for Health Care. Within the Air Force, 91% of the Installation Commanders expressed concern for Family Housing and 82% placed Family Housing in their top three priorities for needing additional funding - - above areas such as base facilities, recreation and services, income/cost of living adjustments, and even health care.

SUMMARY OF BACKLOG OF
DEFERRED MAINTENANCE AND REPAIR (DMAR)
FY 1997 BUDGET REQUEST
($ in Millions)

Consistent with Congressional concerns, the Air Force is actively pursuing means to reduce the backlog of Deferred Maintenance and Repair (DMAR). The Air Force's present goal is to reduce end of year backlog to one year's normal recurring maintenance.

The Air Force has initiated a whole-house/whole-neighborhood concept to establish total funding required to bring existing facilities up to new construction standards. This concept combines all improvements with required maintenance and repairs into one project, minimizing quarters downtime and continual disruption to residents for piece-meal work. Approximately 60 percent of the dollars in the revitalization program contributes to a reduction in DMAR.

If "whole house" renovations are delayed for too long, emergency projects to fix specific systems (e.g. roof leaks) must be accomplished in the interim, driving up life-cycle costs.

Quality family housing has a great impact on the lives of our members and the readiness of our forces. It is for this reason that we believe the maintenance dollars the Air Force has programmed in this budget will have a payback far greater than that which can be measured in terms of average unit costs.

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FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

This information is provided to comply with the 1984 House Appropriations Committee language that requires the Services to report any expenditures from the maintenance account which will exceed $15,000 per unit.

The number of maintenance projects over this threshold have increased significantly over previous years which reflects a growing deterioration of the inventory. This is primarily due to the growing number of units that are waiting for improvement and renovation with investment funding which have deteriorated until they must be repaired to continue occupancy. Since over 60 percent of the average investment project includes major maintenance and repair actions, we can cover some of the problems of a unit through the O&M program. While these projects are shown as line items, the maintenance budget estimate includes these problems along with overall requirements for the entire inventory.

The $15,000 limit has been in effect since 1984 and should be increased to a reasonable limit considering the rate of inflation.

UNITED STATES

Improvements/ M&R Location	No. Units	Year Built	Avg/High Unit Cost	Unit (NSF)	Proj (NSF)	Total Cost($K)	Non-Routine ($K FY90-94)
ALABAMA							
Maxwell	40	1961	23/32	1,558	115,292	920	None

Narrative: This project updates these housing units to meet current building codes and more modern livability conditions. The work includes renovating bathrooms, replacing interior doors, replacing deteriorated flooring, installing new and efficient HVAC units.

Maxwell	3	1934	35/46	3,623	10,869	105	27

Narrative: The roofing systems on these three units have failed and need repair before water penetrations cause more extensive damage. The existing roof tiles have failed, many tiles are broken and some are missing. Portions of the roofing deck have rotted due to water leaks and the flashing and seals have buckled and failed.

CALIFORNIA							
Los Angeles	10	1918	55/73	400	4,000	550	28

Narrative: This project repairs badly deteriorated garage buildings. The current structures have termite damage, cracked and spot-settling concrete flooring and were built to accommodate Model "T" sized automobiles instead of today's larger vehicles. Work to be accomplished

includes demolishing and removing existing garage buildings, grading existing area for drainage, repaving or installing landscaping, placing new concrete slabs at new garage locations, and constructing new garages with new driveway and sidewalks as appropriate. This project also installs new exterior utility connections where necessary to complete garage and driveway work.

Vandenberg	172	1959	20/26	1,064	183,008	3,352	None

Narrative: This project is phase 4 of a multiphased project that replaces overhead galvanized water pipes that are corroded and leaking, ruining sheet rock walls/ceilings and light fixtures. The water pipes are full of mineral deposits severely restricting flow resulting in minimal water pressure for showering and washing. The electrical system is a two-prong ungrounded system that is unsafe especially in bathrooms and kitchens. It is incompatible with modern three-prong appliances rendering them unsafe if used on a two-prong system. In addition, the existing 50 Amp services need to be upgraded to handle the increased load of numerous appliances not available in the 1960's. This project will provide grounding and increased electrical capacity where necessary and replace the deteriorated water piping. This project will supply the minimum requirement of reliable water and safe electricity to the homes.

FLORIDA

Tyndall	20	1969	40/52	1,168	126,144	800	324

Narrative: This project is necessary to correct mechanical and electrical standards deficiencies and to bring these units up to adequate living standards. Work includes renovating kitchens/baths; replacing roofs, floor coverings, interior doors, windows, window blinds, soffits, fascia, water heater vents, rain gutters. Also included is installation of ground fault interrupters and doorbells.

HAWAII

Hickam	113	1940	32/46	919	103,847	3,616.0	None
	94	1968	25/39	1,321	124.194	2,350	None
	66	1971	28/41	1,328	87,648	1,848	None

Narrative: The kitchens and bathrooms in these facilities are in need of repair, upgrade and modernization including replacement of cabinets, countertops, kitchen fixtures, sinks, rangehoods, bath fixtures, flooring, electrical fixtures, wiring, doors and installation of GFCI receptacles, dishwashers, ceiling trim/soffit, and smoke detectors.

Hickam	20	1940	89/116	919	18,380	1,780	None
	18	1971	94/123	1,328	23,904	1,692	None

Narrative: Work needed to repair severe soil settlement and resulting structural defects (cracking of floor slabs and walls); maintain and repair kitchens and bathrooms including replacement of cabinets, countertops, kitchen fixtures, sinks, bath fixtures, flooring, electrical

fixtures, wiring, doors and installation of GFI receptacles, dishwashers, ceiling trim/soffit, and smoke detectors.

ILLINOIS

Scott	6	1940	27/36	1,737	1,962	160	75

Narrative: These housing units are over 50 years old and are overdue for repairs and normal modernization to bring the units to acceptable livability standards. The work to be performed includes renovating kitchens including base and wall cabinets, countertops, sink, faucet, disposal, range hood and exhaust, light fixtures, sheet vinyl floor with vinyl base, vinyl wall covering, and paint. Bathroom renovation includes acrylic tub and enclosure (full bathrooms only), vanity and top, lavatory sink and faucet, toilet, mirror, lighting fixtures, exhaust fan, bathroom accessories, sheet vinyl flooring and vinyl base, vinyl wall covering, and paint. Painting of exterior wood trim. Clean masonry surfaces. Replace exterior rear concrete stairs. Replace pipe railing with a three-rail system. Repaint and repair stone retaining walls.

MISSOURI

Whiteman	2	1962	14/23	1,230	2,460	27	5

Narrative: Water currently penetrates the basements of these units causing excessive damage to the occupants belonging. This project will repair the units' foundations, basement walls, basement drain system, flooring tiles, provide waterproofing of the walls as well as exterior grading and site preparation to better funnel water away from the structure.

NEBRASKA

Offutt	14	1963	20/27	1,720	24,080	276	78

Narrative: The roofs on these units require excessive maintenance due to their low-grade roofing pitch. This project removes the low-grade roofing structure and replaces the system with new roofing trusses, decking and fiberglass shingles at a greater pitched roofing slope. The project also includes replacing soffits, facias, gutters and flashings.

Offutt	16	1960(5) 1961(5) 1963(4) 1975(2)	15/23	1,254	20,069	246	77

Narrative: These housing units have excessive settling and shifting of the foundation causing cracked basement walls and excessive water infiltration into the basements. This project repairs these wet basements to include regrading of the site, providing adequate storm drainage, provides pavement repairs, and proper landscaping. The basement will receive foundation wall removal/replacement/ waterproofing and repair to interior finisher.

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MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

TEXAS

Lackland	32	1959	25/33	1,850	50,600	800	None

Narrative: This project corrects electrical, mechanical standard deficiencies and current safety problems. The project rewires each unit to provide three-wire be-polar electrical grounded distribution system. The project also abates all lead based paint and replaces all doors, door frames, and baseboards.

Lackland	10	1959	63/82	1,850	66,600	625	None

Narrative: These housing foundations have shifted causing extensive floor and wall cracking, tilted window openings and uneven door jams. Repairs are needed to the foundation, doors, windows, floors and baseboards to repair these units to livable conditions.

Randolph	30	1931	31/45	1,800	302,400	930	308

Narrative: These housing units need extensive work to correct facility deficiencies and modernize the units to current building codes and livability standards. The work required includes renovation of kitchens/baths/entryways/laundry areas and storage areas. Needed work also includes replacing deteriorated roofs, updating HVAC systems with more modern and energy efficient units and repairing porches and associated canopies.

Shepherd	30	1952	45/59	1,100	44,000	1,350	101

Narrative: These housing units require corrections to electrical and mechanical code deficiencies as well as overall renovation. This project renovates kitchens/baths, replaces deteriorated roofs, floor coverings, interior and exterior doors, water heater vents, switches, HVAC units and diffusers. The project also installs ground fault interrupters, doorbells and rain gutters. Interior painting is include as a final touch to this renovation project.

VIRGINIA

Langley	20	1960	43/56	1,212	24,248	847	444

Narrative: These housing units require upgrades to the plumbing, mechanical and electrical systems to bring the units up to current codes. This project repairs the bathrooms and kitchens including the electrical, mechanical and plumbing repairs. The project also replaces cabinets, sinks, appliances, fixtures and finishes. The project also remediates asbestos and lead-based paint.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

OVERSEAS

AZORES

Lajes	30	1982	34/45	1,440	43,200	993	None

Narrative: These housing units contain manufactured and preassembled modules which were converted to permanent structures. They require repairs and replacements to windows, exterior doors, mechanical duct system, wall coverings, water lines, bathroom fixtures, lights, and exhaust fans, kitchen counter tops and all electrical wiring. These units need these repair to improve their livability since the current materials have deteriorated causing poor living conditions.

GERMANY

Ramstein	36	1955	93/121	1,023	36,814	3,341	112

Narrative: Project replaces kitchen fixtures, sinks, cabinets and counters; bathroom fixtures, sinks, and tubs; water, heat, radiator, and sewage lines; entrance, exit fire and basement doors. Replacement of 2-wire electrical system with 3-wire grounded system. Replace electrical fixtures, outlets, switches, fuse boxes, doorbells, and intercom systems. Repair and replace floor/wall tiles and plaster/paint throughout. Repair common areas and correct fire code deficiencies. Work will also replace deteriorated balconies. Project not eligible for NATO funding.

Ramstein	36	1955	98/127	1,023	36,814	3,526	56

Narrative: Project will provide maintenance and repair including replacement of kitchen fixtures, sinks, cabinets and countertops; bathroom fixtures, sinks and tubs; water, heat, radiator, and sewage lines; entrance, exit, fire, and basement doors. Replace 2-wire electrical system with 3-wire grounded system with bi-polar wall outlet receptacles. Replace electrical fixture, outlets, switches, fuse boxes, and doorbell. Repair and replaces floor/wall tiles and associated paint/plaster throughout the unit. Work also includes repair to common areas and correction of fire code deficiencies. Project not eligible for NATO funding.

Ramstein	48	1954	88/114	1,144	54,940	4,209	None

Narrative: Project will accomplish maintenance and repair on facility components of 48 Military Family Housing units. Replaces kitchen fixtures, sinks, and cabinet counters; bathroom fixtures, skinks and tubs; water, heat, radiator, and sewage lines; entrance, exit, fire, and basement doors. Replace 2-wire electrical system with 3-wire grounded system. Replace electrical fixtures, outlets, switches, fuse boxes, doorbells, and intercom systems. Repair and replace floor/wall tiles and plaster/paint throughout. Repair common areas and correct fire code deficiencies. Project not eligible for NATO funding.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

Ramstein	48	1955	88/116	1,144	54,940	4,215	None

Narrative: This project is necessary to comply with building codes and increase the livability of these housing units. Replace: kitchen fixtures, sinks, cabinets and countertops; bathroom fixtures, sinks and tubs; water, heat, radiator, and sewage lines; entrance, exit, fire, and basement doors. Replace 2-wire electrical system with 3-wire grounded system with bi-polar wall outlet receptacles. Replace electrical fixture, outlets, switches, fuse boxes, and doorbell. Repair and replaces floor/wall tiles and associated paint/plaster throughout the unit. Work also includes repair to common areas and correction of fire code deficiencies. Project not eligible for NATO funding.

Ramstein	54	1955	98/127	1,023	55,220	5,441	None

Narrative: This project provides basic maintenance to ensure the housing units comply with current building codes. Units constructed in 1945 and have not been renovated. Work includes; Replace bathroom fixtures, commodes, showers, and vanities; replace kitchen cabinets and counters; repair floor and wall surfaces; replace unit closets, doors, utility lines; install stove exhaust hoods, 110 volt power outlets, and provide washer/dryer hookups. Repair common areas and correct fire deficiencies. Repair stairwells, balconies and entryways. Remove and abate lead paint and asbestos as required. Project not eligible for NATO funding.

Spangdahlem (Bitburg)	1	1954	250	2,503	2,503	250	None

Narrative: This project will provide the maintenance and repair to mediate health hazards in a Military Family Housing quarters. Living conditions have deteriorated so extensively with the highly rusted pipes that the tap water is orange. The project will repair kitchens, bedrooms, bathrooms, and living room areas. Work includes replacement of mechanical, ventilation, heating, water, and sewage systems. Also included is replacement of the obsolete 110 volt electrical system, doors, windows, cabinets, light fixtures, molding and flooring. The project also includes repair to landscaping and sidewalks. Project not eligible for NATO funding.

Spangdahlem	22	1954	83/110	1,146	25,212	1,828	None

Narrative: These housing units need upgrades to make them more livable. This project repairs kitchens, bedrooms, bathrooms, living rooms, balconies, hallways and stairwells. The project replaces electrical distribution, mechanical, ventilation, heating, water and sewage systems to bring them up to current code. Replacement of TV antenna system, letter boxes, blinds, grating for basement windows and doors, sanitation systems, stairwell steps, railing and doors. Repairs common areas and corrects fire deficiencies. Provides repair to the landscaping and uneven sidewalks. Project not eligible for NATO funding.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

Spangdahlem (Bitburg)	24	1954	83/112	1,281	30,744	1,994	None

Narrative: Project provides much needed maintenance and repair to 24 Military Family Housing Units. Project repairs kitchens, bedrooms, bathrooms, living rooms, balconies, hallways and stairwells. Also included is replacement of the electrical distribution, mechanical, ventilation, heating, water and sewage systems to bring these units up to current code. Also in the work is replacement of the TV antenna system, letter boxes, blinds grating for basement windows and doors, sanitation systems, stairwell steps and railings and doors. Repair to common areas and correct fire code deficiencies. Project also repairs landscaping and failed sidewalks. Project not eligible for NATO funding.

GUAM

Andersen	100	1961	36/48	1,150	115,000	3,600	None

Narrative: This is the 8th Phase of a multiphased project. The project is essential to repair highly deteriorated roofs which are causing leaks into the units and rotting the existing roof decking. The project will replace the severely deteriorated elastomeric foam roofs with built-up roofs.

JAPAN

Kadena	9	1953	114/148	1,387	12,484	1,026	None

Narrative: These units currently have roof and ceiling structural integrity problems caused by termites. This project replaces roof tiles and wooden trusses with concrete roofs, including facia, soffits ceilings and electrical/mechanical systems.

Kadena	17	1983	38/55	1,731	29,427	646	None

Narrative: The HVAC systems and associated electrical and hardware components have deteriorated and are in need of replacement. This project replaces these deteriorated systems with energy efficient individual reverse cycle heat pumps and provides the necessary electrical/plumbing hookups, concrete pad for mounting the system and necessary interior duct work.

Kadena	110	1964	25/33	1,436	158,030	2,750	None
	134	1976	21/28	1,245	166,832	2,814	None
	110	1964/5	26/36	1,436	158,030	2,860	None

Narrative: Phases 2 and 4 of a multiphased project to upgrade the electrical systems in these units to current electrical code. The work replaces all interior electrical wiring, switches, outlets, light fixtures and fuse boxes. The wiring system has reached the end of it useful life and has neither ground wires included into the existing system nor ground fault interrupters. This project will correct potential electrical fires and electrical shock hazards.

DEPARTMENT OF THE AIR FORCE
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FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

Kadena	134	1976	16/21	1,466	196,548	2,144	None
	89	1955	16/21	870	77,843	1,424	None
	97	1957	16/21	1,203	116,747	1,552	None

Narrative: This work is required to modernize kitchens in these units. Work includes replacement of cabinets, new garbage disposal, electrical, plumbing, and installation of a dishwasher.

Kadena	128	1977	17/23	1,532	196,096	2,176	None

Narrative: This work is required to modernize the kitchens in these units. Work includes replacement of cabinets, sinks, garbage disposals, electrical, plumbing, and installation of dishwashers.

Kadena	98	1986	34/44	1,721	168,658	3,332	None

Narrative: This project is needed to repair/replace DHW/HVAC systems which have deteriorated beyond economical repair. An energy study showed it more cost efficient to replace these central heating systems with individual heat pumps. This project will complete the first two phases of a multi-phased requirement in the Chibana Housing area.

Yokota	12	1973	35/47	2,521	30,252	420	297
	3	1973	40/52	3,432	10,296	120	None

Narrative: The roofs on these units have deteriorated causing water infiltration and interior plaster and wallboard damage. This project replaces these deteriorated built-up roofs and makes necessary interior repairs to correct water damage.

UNITED KINGDOM

Mildenhall (Alconbury)	1	1954	69	1,972	1,972	69	None

Narrative: This project is necessary to upgrade these facilities to safe, modern more livable standards. Living conditions have deteriorated on the highly rusted pipes of this unit that tap water is orange. The project will repair kitchens, bedrooms, bathrooms, and living room areas and insulates the attic. Project also replaces doors, windows, cabinets, light fixtures, molding and flooring. Replacement of electrical, mechanical, heating, water and sewage systems to bring them to current code. The project also provides repair to the landscaping and uneven sidewalks.

Mildenhall (Alconbury)	40	1954	59/80	1,406	56,250	2,355	None

Narrative: These family housing units need modernization and corrections to electrical and fire code deficiencies. The project repairs kitchens, bedrooms, bathrooms, and living room areas and insulates the attic. Project also replaces doors, windows, cabinets, light fixtures, molding and flooring. Replacement of electrical, mechanical, heating, water and sewage systems to bring them to current code. The project also provides repair to the landscaping and sidewalks.

FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

Mildenhall (Croughton)	40	1958	60/78	1,730	69,200	2,405	531

Narrative: Project provides needed repairs and upgrades to increase the livability of these units. Project repairs electrical, mechanical, plumbing, and sewage systems. Repairs roofs, floors, and living areas. Project will also provide insulation and correct fire deficiencies.

The following projects were approved out-of-cycle in FY 1995:

Hickam AFB HI

Narrative: Units that were transferred to the Air Force late in Fiscal Year 1994 were out of the normal budget lead time cycle, yet did not meet environmental standards. Exterior of 30 units and 12 carports were badly weathered with flaking, chipping painted surfaces containing lead based paint. Content of lead exceed standards of safe limits by more than ten times. The project removed lead-based paint contamination, repaired and repainted the units and carports. Since all units were historical units built in 1917 maintenance costs rose to $60,740 for the highest unit and project costs were $1,320,000.

Travis AFB CA

Narrative: The initial scope of the project was to repair three bathrooms. After project start inadequate wiring problems necessitated replacement of the electrical distribution, mechanical, ventilation, and heating systems to bring the unit up to current code. Also the scope expanded to insulate the attic, carpet bedrooms, seal and paint interior walls, renovate the garage, TV antenna system, blinds, windows, stairwell steps, railings and doors for a total cost of $34,600.

Mt Home AFB ID
Shaw AFB SC
Howard AFB Panama
Pope AFB SC
Davis-Monthan AFB AZ

Narrative: The Air Force submitted a consolidated notification for units on these bases because of restorations costing more than $15,000 per unit form damages due to fires, hurricanes, earthquakes, and storms. The total of all projects was $231K.

Offutt AFB NE

Narrative: This project was required to repair the foundations and wet basements of 63 units with expedient action after the identification of the problem. Eighteen of these units had to be vacated due to existing conditions. Basement walls had to be shored to temporarily prevent further damage. Included all work necessary to repair foundations including site work, concrete work, masonry, painting, waterproofing, lead base paint removal and electrical work. As a result of timely repairs the total project cost was $694,000.

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MILITARY FAMILY HOUSING
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FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

Sembach AB GE

Narrative: Due to unusual cost escalation in the Construction market in this part of Germany previously Congressionally approved project for 18 units at $837,000 got a low bid of $1,318,000. In addition, fluctuations in the Dollar/Deutschmark conversion rate added further inaccuracy to the project estimate. Also the Construction Market turbulence and strategy deliberations on what to do caused a longer-than-normal time between project submission and advertisement. Reduction in scope to fit into approved costs was not feasible as this would destroy the essential intent of the project. An out-of-cycle approval for increased costs was processed.

Spangdahlem AB GE

Narrative: Due to unusual cost escalation in the Construction market in this part of Germany previously Congressionally approved project for 54 units at $14,638 per unit got a low bid of $17,056 per unit. In addition, fluctuations in the Dollar/Deutschmark conversion rate added further inaccuracy to the project estimate. Also the Construction Market turbulence and strategy deliberations on what to do caused a longer-than-normal time between project submission and advertisement. Reduction in scope to fit into approved costs was not feasible as this would destroy the essential intent of the project. An out-of-cycle approval for increased costs was processed.

Patrick AFB FL

Narrative: Due to storm and water damage the roofs on 9 units which were 22 years old began to leak severely. The work included replacing existing asbestos laden built-up roofs with a poor slope. To correct the problem, the entire roof had to be replaced and the floor slab in family rooms raised. High unit cost was $48,267 and total cost was $469,200.

Kelly AFB TX

Narrative: Electrical system deterioration on 26 units that are over 50 years old resulted in failure and unsafe power use conditions. Units were hazardous and unable to meet current residential electrical load requirements. Although Kelly AFB is identified as a BRAC 95 base closure, only the depot will be affected. The military family housing will be annexed to Lackland AFB. Kelly housing will still be required due to the 600 unit shortage at Lackland. This project upgraded the original electrical wiring and control panels. Total cost of the project was $520,000 with a high cost unit at $30,968.

Onizuka AS CA

Narrative: Fire damage to two units during transition from Navy to Air Force resulted in unusable units in a high cost area with an extensive list of members who needed housing on base. Restoration was less than 50% of the cost of a new unit. Restoration cost for unit 621B was $44,003 and $33,473 for unit 711A for a total of $77,476.

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MILITARY FAMILY HOUSING
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FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

Beale AFB CA

Narrative: Due to storm and fire damage submitted after-the-fact notification for two housing projects at Beale AFB. One project repairs a unit damaged by at a cost of $66,000. The second project repairs storm damage at a cost of $26,000.

Whiteman AFB MO
Mt Home AFB ID

Narrative: The Air Force submitted a consolidated notification for units on these bases because of restorations costing more than $15,000 per unit form damages due to fires, and a collapsed sewer line. The total of all projects was $119K.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

GENERAL OFFICER QUARTERS
(Exceeding $25K Threshold)

This information is provided to comply with the 1984 House Appropriations Committee language that requires the Service to report any expenditures from the maintenance account which will exceed $25,000 per unit.

The number of maintenance projects exceeding this threshold have increased significantly over previous years, reflecting a growing deterioration of the inventory. This is primarily due to the increasing number of units awaiting improvement and renovation with investment funding. Since over 60 percent of the average improvement project includes major maintenance and repair actions, we can cover some of the problems of a unit through the O&M program. While these projects are shown as line items, the maintenance budget estimate includes these problems along with overall requirements for the entire inventory.

The $25,000 limit has been in effect since 1984 and should be increased to a reasonable limit considering the rate of inflation.

Location	Qtrs ID	Size NSF	Year Built	Oper Total	Util Total	Maint Total	Ttl O&M	M&R Trhld Limit	Improvements Non-Routine ($K FY90-94)
DISTRICT OF COLUMBIA									
Bolling	22-32	2,421	1932	49	182	1,188	1,419	146	None
	62	3,054	1932	4	14	136	154	154	None
	63	3,069	1932	5	16	141	162	162	None
	64-74	2,436	1932	52	187	1,194	1,433	145	None

Narrative: Repair roofs, windows, and sun porches on GOQs. Without repair, the roofs will continue to leak resulting in more structural and interior damage to the quarters and occupants personal property. Windows have outlived their useful life, and are energy inefficient. Work also includes replacement of windows with energy efficient thermal paned windows and replacement of the existing deteriorated roof on the main households with a seam metal roof. Accomplish repairs to HVAC systems to reduce heating and cooling costs. Restore sunporches including replacing deteriorating floors, exterior walls, and load bearing joists on quarters 22 - 32 to eliminate potential safety hazards and to preserve structural integrity. Replace plaster ceilings with dry wall ceilings in quarters 22 - 32 and 62 - 74 to eliminate the safety hazard of falling ceilings.

FLORIDA									
Tyndall	2727	2,440	1958	3	3	103	109	103	45

Narrative: Work needed to correct electrical deficiencies and upgrade the living condition of the quarters. The work includes renovation of kitchens/baths, replacing deteriorated roof, interior doors, windows, window blinds, soffits, fascia, water heater vents, rain gutters and also installs ground fault interrupters, doorbell and dishwasher.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
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GENERAL OFFICER QUARTERS
(Exceeding $25K Threshold)

OHIO

Wright-Pat	10700	4,056	1935	3	6	127	136	127	31

Narrative: Replace HVAC and related HVAC system asbestos. House must be vacated for asbestos removal and will be available for a period during FY97. Work includes HVAC replacement which includes ducting, piping, chiller, boiler, related electrical work, removal of lead based paint, and refinishing of affected surfaces. Existing HVAC system is 16 years old and consists of individual fan coil units (motel-style), boiler, chiller and single piping system. System requires considerable maintenance with parts becoming difficult to obtain. The kitchen requires various necessary repairs. Work also includes restoration of selected windows due to inoperability and deterioration.

OVERSEAS

JAPAN

Yokota	691	3,278	1975	5	9	112	126	112	4

Narrative: The roof on this unit has reached its useful life and has deteriorated beyond economical repair. This project replaces the deteriorated built-up roof.

Yokota	692	4,650	1975	5	8	246	259	246	13

Narrative: This house is located near the flightline in a high noise area. This project will reduce the noise level and improve quality of life by replacing the windows and glass sliding doors in the living/dining/bedrooms with sound rated energy efficient units. The project also replaces the deteriorated built-up roof.

The following projects were approved out-of-cycle in FY 1995:

Hickam AFB HI

Narrative: Initial project was submitted while housing in Hawaii was administered by Army for a cost of $28K. After work started the serious safety hazards in the units were discovered which increased project costs to $33K. This action allows correction of serious safety conditions caused by electrical overloads. The electrical system was over 50 years old and could not safely handle surge demands.

Langley AFB VA

Narrative: The unique and unusual features of the house required extensive time and coordination for major repairs. Because the house had been nominated for the inclusion on the National Register of Historic places, all planned maintenance had to preserve the integrity of this historical facility. Besides providing the Commander of Air Combat Command a modern and efficient home the support of entertainment responsibilities had to be incorporated. Occupant volunteered to move out early to allow work to progress. Project replaced exterior windows with thermal panes, wall covering and tile in bathrooms, rebuilt bath and dressing rooms,

repaired controls and parts of HVAC system, repaired patio and walkways, sealed and repointed exterior brickwork, accomplished remediation of all lead based paint and other environmental hazards. Project also included normal change of occupancy work included interior painting, regrouting tile, carpet cleaning, any necessary plumbing repairs and ensured all appliances are operational for a total cost of $185K.

OVERSEAS

UNITED KINGDOM

Lakenheath

Narrative: Components had reached end of useful life and uncertainty of housing in Europe prevented repairs over the last several years. This unit had not received major repairs since 1961. Plumbing had deteriorated beyond patch repair capability; electrical wiring was frayed and could not support the electrical load demands; windows were single glazed; carpets were worn; doors and closets were badly worn as well as the driveway surface and carport floor had broken-up. Project replaced fixtures in bathrooms and kitchen, interior plumbing and electrical wiring, carpets, double glazed windows, resurfaced driveway and carport floor and provided additional parking. Also, doors, closets and interior features were repaired to a standard of amenities necessary to perform entertainment functions with community, host nation, and various foreign dignitaries for a total cost of $182K.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST
RECONCILIATION OF INCREASES AND DECREASES
Exhibit OP-5

Reimbursement. Includes collections received from rental of Air Force family housing to foreign nationals, civilian and other personnel. Included in the estimate is the anticipated reimbursements due to members who separate voluntarily that are authorized to live in government quarters for up to six months after separation.

1.	FY 1996 President's Budget (Amended):	$13,151
2.	Congressional Adjustments:	None
3.	FY 1996 Appropriated Amount:	$13,151
4.	Proposed Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers:	None
7.	Price Decreases:	
	a. Reduction for one-time requirement for prior year	$-2,192
	b. Less Trailer Parks serviced thru the reimbursement account	$- 283
8.	FY96 Current Estimate:	$10,676
9.	Program Growth:	$ 235
10.	Functional Program Transfers:	NONE
11.	Program Increases:	NONE
12.	Program Decreases: Reduction of non-DoD support personnel living in family housing	$- 53
13.	FY 1997 Budget Request:	$10,858

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST
RECONCILIATION OF INCREASES AND DECREASES
Exhibit OP-5

Analysis of Changes in Reimbursements

March AFB (710 units) will be removed from inventory in FY96 as a result of Round III Base Closure and BRAC IV starts in FY97 with closure of Reese AFB.

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MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

LEASING

Program ($ in Thousands)
FY 1996 Program $115,665
FY 1997 Program $108,083

Purpose and Scope

Provides leasing of privately owned housing for assignment as government quarters at both domestic and foreign locations when the local economy cannot provide adequate support and the deficit of on-base housing also does not satisfy requirements. The leasing program is authorized by 10 U.S.C. 2828 and provides for payment of rent and operations and maintenance costs of privately owned quarters for assignment as government quarters to military families. This program also includes funds needed to pay for services such as utilities and refuse collection when these services are not part of the contract agreement.

The Air Force continues to rely on the private sector to meet the majority of housing needs. Where the private sector rental markets and on-base housing cannot meet requirements and cost effective alternatives do not exist, short and long-term leases are used. In high cost areas and overseas, the Air Force relies extensively on the leasing program to obtain housing to meet critical housing needs.

Program Summary - Highlights

Authorization is requested for appropriation of $108,083,000 to fund leases and related expenses in FY97. The FY 1997 request for family housing leasing points is summarized as follows:

(1) 9,201 Foreign lease points
(2) 5,800 Section 801 lease points
(3) 3,333 Domestic lease points

Foreign Leasing

Leasing in foreign countries is controlled by Congress. First by the number of lease points authorized, then by the review and approval of contract proposals, and finally by the funds appropriated. As overseas base closures occur, foreign leases are terminated as soon as economically possible. Air Force strategy during the drawdown in overseas areas is to maximize the use of government-controlled assets, thereby providing more affordable housing for our personnel and avoiding expensive off-base housing entitlements. The Air Force has been able to retain some housing areas from closing bases for use at nearby bases that are remaining. In fact, the percentage of personnel able to reside in government controlled quarters is increasing. As the Air Force draws down in Europe, the order of the release of housing assets is placed, where possible, as (1) private rentals (which are

usually the most expensive), (2) GRHP and build-to-lease units, and (3) government owned. The exact mix of types of housing will depend upon available assets in each locality. Renewals of leases will be on a year-to-year basis to reduce cost by limiting termination liability. Full authorization is required to allow for sufficient flexibility during mission realignments to maximize cost effective solutions.

Section 801 Leasing

This program is helping to reduce our CONUS family housing deficit at sites where Air Force families are seriously affected by housing shortages and high costs.

In FY 1984, Congress authorized the testing of a new leasing program for U.S. installations in P.L. 98-115, Section 801. Subsequently, nine housing projects were completed and occupied; Eielson AFB, AK, 300 units; Hanscom AFB, MA, 163 units; Goodfellow AFB, TX, 200 units; March AFB, CA, 200 units; Travis AFB, CA 300 units; Ellsworth AFB, SD, 200 units and 828 units; Hurlburt AFB, FL, 300 units; and Cannon AFB, NM, 350 units. The 366 Eielson AFB units are construction complete and occupied; however the contractor is still completing the exterior of the units as weather permits. In addition, as part of a combined project with the Naval District of Washington, 828 units for Andrews AFB (Summerfield Housing Complex) were delivered and occupied during the first quarter of FY 1996.

Domestic Leasing

Domestic leasing provides temporary housing for Air Force families pending availability of permanent housing. For example, Onizuka's Domestic leasing project provided interim relief for service families assigned to the San Francisco area pending transfer of Moffett NAS housing to the Air Force. This has been an excellent transition procedure to support families in this high cost area while preparing for long term solutions with the transfer of Moffett housing to the Air Force.

Congress has authorized leasing of domestic units (10 U.S.C. 2828) on a temporary basis to satisfy critical requirements until a permanent solution can be found or if more economical than construction.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST
RECONCILIATION OF INCREASES AND DECREASES
Exhibit OP-5

Leasing

1.	FY 1996 President's Budget (Amended):	$115,665
2.	Congressional Adjustments:	None
3.	FY 1996 Appropriated Amount:	$115,665
4.	Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers:	None
7.	Program Increases:	None
8.	Program Decreases:	None
9.	FY 1996 Current Estimate:	$115,665
10.	Price Growth:	
	a. Inflation	$ 2,545
	b. Foreign Currency Fluctuation rate adjustment	$ 285
11.	Functional Program Transfer:	None
12.	Program Increases:	None
13.	Program Decreases:	
	a. Program repricing of leases in Europe	$- 5,200
	b. Program Realignment in Europe	$- 5,212
14.	FY 1997 Budget Request:	$108,083

Analysis of Change in Leasing

The attached Leasing charts reflect changes to the program by locations and type of lease. These requirements are a direct result of changes to mission beddowns and other housing needs.

FAMILY HOUSING, DEPARTMENT OF THE AIR FORCE
ANALYSIS OF LEASED UNITS
(Other than Section 801)

LOCATION (OAC)	FY 95			FY 96			FY 97		
	UNITS AUTH	LEASE MONTHS	COST ($000)	UNITS AUTH	LEASE MONTHS	COST ($000)	UNITS AUTH	LEASE MONTHS	COST ($000)
DOMESTIC LEASES									
Los Angeles, CA (47)	55	660	$662	55	660	$675	30	354	$368
Los Angeles, CA/AFRTS (47)	15	180	$180	15	180	$180	15	180	$180
Harrison, Ar (78)	37	444	$286	40	480	$310	40	480	$310
Holbrook, Az (78)	0	0	$0	0	0	$0	0	0	$0
Moody AFB, GE (78)	70	840	$553	64	768	$510	62	744	$497
Shaw AFB, SC (78)	80	980	$874	50	600	$547	50	600	$547
Onizuka, Ca (83)	0	0	$0	0	0	$0	0	0	$0
Recruiter/R.O.T.C. (64)	0	0	$0	TBD	TBD	$800	TBD	0	$0
Unassigned	3,076	0	$0	3,109	0	$0	3,136	0	$0
TOTAL DOMESTIC LEASES	3,333	3,104	$2,555	3,333	2,688	$3,022	3,333	2,358	$1,902
FOREIGN LEASES									
Jordan (43)	2	24	$38	2	24	$38	2	24	$38
Cairo, Egypt (51)	4	48	$140	4	48	$140	4	48	$140
Nairobi, Kenya (51)	1	12	$24	1	12	$25	1	12	$26
Asmara, Eritea (51)	1	12	$23	1	12	$23	1	12	$23
Bangkok (53)	7	84	$151	7	84	$152	7	84	$153
Classified Location (53)	3	36	$109	3	36	$110	3	36	$112
Lajes (78)	1	3	$2	0	0	$0	0	0	$0
Oson (74)	276	3,312	$3,576	276	3,312	$3,659	276	3,312	$3,732
Singapore (74)	0	0	$0	120	1,440	$4,173	120	1,440	$4,282
Alconbury (80)	250	3,000	$2,617	250	3,000	$2,675	150	1,800	$1,622
Ankara (80)	32	384	$521	24	288	$391	24	288	$391
Aviano (80)	857	8,970	$8,155	857	9,873	$9,159	857	9,873	$10,182
Bentwaters (80)	293	3,516	$3,794	293	3,516	$3,878	293	3,516	$3,96
Comiso (80)	460	5,520	$7,303	460	5,520	$7,303	460	5,520	$7,30
Geilenkirchen (80)	1	12	$27	1	12	$27	1	12	$27
Incirlik (80)	110	1,320	$2,332	110	1,320	$2,395	110	1,320	$2,460
Izmir (80)	10	120	$309	10	120	$318	10	120	$323
Kalkar (80)	0	0	$0	0	0	$0	0	0	$0
Lakenheath (80)	1,065	11,540	$9,587	1,065	12,568	$10,440	1,165	13,980	$11,295
Stavenger (80)	1	12	$90	1	12	$90	1	12	$90
Paris (80)	1	2	$3	1	12	$38	1	12	$38
Ramstein (80)	521	5,232	$5,513	261	3,132	$3,375	160	1,920	$2,070
Rhein Main (80)	225	2,700	$3,030	195	2,340	$2,626	0	0	$0
Rome (80)	0	0	$0	0	0	$0	0	0	$0
San Vito (80)	150	1,800	$2,400	75	900	$1,225	0	0	$0
Soesterberg (80)	0	0	$0	0	0	$0	0	0	$0
Spangdahlem (80)	500	6,000	$6,240	538	6,456	$6,885	538	6,456	$7,022
Upper Heyford (80)	50	600	$692	50	600	$711	50	600	$725
Ascension (83)	1	12	$18	1	12	$18	1	12	$18
Copenhagen (83)	4	48	$27	4	48	$27	4	48	$27
Seychelles (83)	2	24	$40	2	24	$40	2	24	$40
Unassigned	4,392	0	$0	4,532	0	$0	4,727	0	$0
Estimated Termation Costs	0	0	0	0	0	0	0	0	0
San Vito (80)	0	0	$0	0	0	$650	0	0	$0
Ramstein (80)	0	0	$1,517	0	0	0	0	0	0
TOTAL FOREIGN LEASES	9,201	54,124	$57,791	9,126	54,505	$60,102	8,950	50,265	$56,104
GRAND TOTAL FH-4	12,534	57,228	$60,346	12,459	57,193	$63,124	12,283	52,623	$58,006

DD Form 2458-2, JUN 86

Exhibit FH-4

ANALYSIS OF HIGH COST LEASED UNITS
(Other than Section 801)
FY 1997

LOCATION	FY97 TOTAL LEASES Per Country	FY95 HIGH COST UNITS	FY95 HIGH COST Defined	FY95 EST COST	FY96 HIGH COST UNITS	FY96 HIGH COST Defined	FY96 EST COST	FY97 HIGH COST UNITS	FY97 HIGH COST Defined	FY97 EST COST
DOMESTIC LEASES										
Los Angeles, Ca		55	12,000	662,000	55	12,000	675,000	30	12,000	368,000
Onizuka, Ca		0	to	0	0	to	0	0	to	0
None Over $14K per Year		0	14,000		0	14,000		0	14,000	
Sub-Total Domestic	224	55		662,000	55		675,000	30		368,000
FOREIGN LEASES										
*Geilenkirchen, Germany	1,283	1	23,953	27,000	1	23,953	27,000	1	23,953	27,000
*Izmir, Turkey	164	1	1,071	31,785	1	1,071	32,710	1	1,071	33,635
*Izmir, Turkey	164	1	1,071	57,350	1	1,071	58,650	1	1,071	60,310
*Izmir, Turkey	164	1	1,071	56,310	1	1,071	57,849	1	1,071	59,480
*Izmir, Turkey	164	1	1,071	35,110	1	1,071	36,130	1	1,071	37,160
*Izmir, Turkey	164	1	1,071	33,910	1	1,071	34,586	1	1,071	35,560
*Izmir, Turkey	164	1	1,071	20,100	1	1,071	21,250	1	1,071	21,850
*Izmir, Turkey	164	1	1,071	20,272	1	1,071	21,275	1	1,071	21,880
*Izmir, Turkey	164	1	1,071	19,830	1	1,071	20,350	1	1,071	20,825
*Izmir, Turkey	164	1	1,071	34,333	1	1,071	35,310	1	1,071	36,345
**Oslo, Norway	0	0			0			0		
**Stavanger, Norway	1	1	20,080	90,000	1	20,080	90,000	1	20,080	90,000
Sembawang, Singapore					120		4,173,000	120		4,282,000
***Paris, France	1	N/A	N/A	3,000	N/A	N/A	38,000	N/A	N/A	38,000
***Copenhagen, Denmark	4	N/A	N/A	27,000	N/A	N/A	27,000	N/A	N/A	27,000
***Aman, Jordan	2	N/A	N/A	38,000	N/A	N/A	38,000	N/A	N/A	38,000
***Asmara, Eritea	1	N/A	N/A	23,000	N/A	N/A	23,000	N/A	N/A	23,000
***Cairo, Egypt	4	N/A	N/A	140,000	N/A	N/A	140,000	N/A	N/A	140,000
***Nairobi, Kenya	2	N/A	N/A	24,000	N/A	N/A	25,000	N/A	N/A	26,000
***Bangkok, Thailand	7	N/A	N/A	151,000	N/A	N/A	152,000	N/A	N/A	153,000
Classified Location	3	N/A	N/A	109,000	N/A	N/A	110,000	N/A	N/A	112,000
Sub-Total Foreign		11		941,000	131		5,161,110	131		5,283,045
GRAND TOTAL FH-4A		66	N/A	1,603,000	186	N/A	5,836,110	161	N/A	5,651,045

Exhibit FH-4A

HIGH COST domestic leases range between $12k and $14k per year. No domestic lease exceeds $14K per year.

* Adjusted cost cap for overseas leases is determined by multiplying $20k times the FY 88 exchange rate divided by the FY 97 exchange rate. Leases exceeding this cap are defined as HIGH COST and are counted against the number of high cost leases allowed.

** Oslo lease moved to Stavanger in mid FY94

*** State Department pool leases do not count against the total number of high cost leases allowed.

FAMILY HOUSING, DEPARTMENT OF THE AIR FORCE
SECTION 801 FAMILY HOUSING SUMMARY
(Dollars In Thousands)

FY 1997

LOCATION	NO. OF UNITS	DATE OF AWARD	DATE OF FULL OCCUP	FY95 COSTS	FY96 UNITS	FY96 COSTS	FY97 UNITS	FY97 COSTS
Hanscom AFB, MA	163	SEPT 85	OCT 87	$2,396	163	$2,434	163	$2,485
Goodfellow AFB, TX	200	SEPT 86	JAN 88	$1,878	200	$1,916	200	$1,954
Andrews AFB, MD	828	SEPT 91	OCT 95	$3,830	810	$8,896	828	$9,350
Hurlburt AFB, FL	300	JUNE 90	JULY 92	$3,241	300	$3,266	300	$3,296
March AFB, CA	200	NOV 87	NOV 88	$2,069	185	$1,950	0	$0
Travis AFB, CA	300	SEPT 89	AUG 91	$3,933	300	$4,010	300	$4,110
Eielson AFB, AK	300	JAN 85	JULY 86	$5,030	300	$5,130	300	$5,233
Eielson AFB, AK	366	SEPT 91	AUG 97	$410	320	$6,775	366	$6,953
Ellsworth AFB, (2) SD	828	AUG 89	JUNE 91	$9,672	828	$9,865	828	$10,061
Ellsworth AFB, SD	200	JUNE 89	JULY 90	$2,559	200	$2,612	200	$2,667
Cannon AFB, NM	350	JUNE 91	AUG 93	$3,815	350	$3,890	350	$3,968
SIOH Estimate/Adjustments				$1,150		$1,797		0
ANNUAL REQUIREMENT	4,035	N/A	N/A	$39,983	3,956	$52,541	3,835	$50,077
Unused Lease Points	1,765			$0	1,844	$0	1,965	$0
GRAND TOTAL FH-5	5,800	N/A	N/A	$39,983	5,800	$52,541	5,800	$50,077

ANDREWS SCHEDULE ---------- All units were delivered and accepted by the end of January 1996.

EIELSON SCHEDULE ---------- 57 UNITS were delivered by the end of Aug 95; another delivery was for 183 UNITS in late October 95; then interior work on 126 UNITS started in Dec 95 with project completion as soon as Alaskan weather permits.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

DEBT PAYMENT

Program (in Thousands)
FY 1997 Program $30
FY 1996 Program $29

Purpose and Scope

The Debt Payment program continues in FY 1997 in name only, as the last of the Capehart and Wherry mortgages were liquidated in FY 1989.

This program includes payment of Servicemen's Mortgage Insurance Premiums to FHA for mortgages assumed by active military personnel prior to FY 1980.

Program Summary

Authorization is requested for the appropriation of $30,000 for FY97 as follows:

($ In Thousands)	FY 1996 ESTIMATE	FY 1997 ESTIMATE
Servicemen's Mortgage Insurance Premiums	29	30
TOTAL OBLIGATING AUTHORITY (TOA)	29	30
Principal Payment		
Capehart	0	0
Wherry	0	0
Subtotal	0	0
TOTAL REQUIREMENTS (BUDGET AUTHORITY PLUS APPROPRIATION):	29	30

Servicemen's Mortgage Insurance Premiums

Servicemen's Mortgage Insurance Premiums, Section 124, Public Law 560, 83rd Congress, The Housing Act of 1954, aids in providing homes for members of the Armed Forces of the United States and their families through a system of FHA mortgage insurance especially designed to assist such members in financing the construction or purchase of homes.

This program was discontinued through Public Law 93-130 (Military Construction Appropriation Act, 1980) which allowed coverage only on existing mortgages covered prior to FY 1980. The amount needed to continue funding premiums on mortgages existing prior to FY 1980 continues to decrease. The program for FY 1996 and FY 1997 is as follows:

Fiscal Year	Number	Average Payment/YR	Amount($000)
1996	160	182	29
1997	165	182	30

BASE CIVIL ENGINEERS
(As of 11Mar 96)

BASE	STATE	NAME	PHONE
ANDERSEN	Guam	Lt Col Scott Showers	(671) 366-7101
ANDREWS	MD	Lt Col Joseph H. Amend	(301) 981-7281
ARNOLD	TN	Col Martin D. Masuda	(615) 454-5247
AVIANO	Italy	Maj Marvin Fisher	011-39-434-66-7500
BARKSDALE	LA	Lt Col James D. Lyon	(318) 456-4856
BEALE	CA	Lt Col Martin D. Lewis	(916) 634-2942
BOLLING	DC	Col Jim Norris	(202) 767-5565
BUCKLEY	CO	Lt Col Sean Mcgoldrick	(719) 556-7631
CHARLESTON	SC	Lt Col George R. Auten	(803) 566-4956
CROUGHTON	England	Capt Gerald Montani	011-44-1280-70-8169
DAVIS-MONTHAN	AZ	Lt Col Benjamin Anderson	(520) 750-3401
DOVER	DE	Lt Col Gus G. Elliott Jr	(302) 677-6768
DYESS	TX	Lt Col David A. Sweat	(915) 696-2250
EDWARDS	CA	Col Steven D. Kukuk	(805) 277-2910
EGLIN	FL	Col Carl J. Wiles, Jr.	(904) 882-2876
EGLIN FIELD 9	FL	Lt Col Doug Nelson	(904) 884-7701
EIELSON	AK	Lt Col David E. Barnes	(907) 377-5213
ELMENDORF	AK	Col Pat Coullahan	(907) 552-2324
FAIRCHILD	WA	Lt Col Cliff C. Fetter	(509) 247-2291
FALCON	CO	Lt Col Alex Formwalt	(719) 550-4200
GRAND FORKS	ND	Lt Col Ralph W. Williams III	(701) 747-4768
HICKAM	HI	Lt Col Randie A. Storm	(808) 449-1660
HILL	UT	Col Tad A. Stanley	(801) 777-3071
INCIRLIK	Turkey	Maj Roger Parsons	011-90-322-316-6463
INDIAN SPRINGS	NV	Col Gregory E. Riggs	(702) 652-4833
KEESLER	MS	Lt Col Alexander Earle	(601) 377-2615
KELLY	TX	Lt Col Rodney L. Staponski	(210) 925-6901
LACKLAND	TX	Lt Col Paul Somers	(210) 671-2977
LAKENHEATH	England	Maj Steve Zander	011-44-1638-52-2100
LANGLEY	VA	Col Guillermo Ibarra	(804) 764-2025
LITTLE ROCK	AR	Lt Col Mary L. Vroman	(501) 988-3322
LUKE	AZ	Lt Col Raymond Dinsmore	(602) 856-6135
MALMSTROM	MT	Lt Col Richard P. Parker	(406) 727-6188
MAXWELL	AL	Lt Col John Prior	(334) 953-6944
McCHORD	WA	Lt Col Peter J. Baldetti	(206) 984-5209
McCLELLAN	CA	Col Glenn D. Haggstrom	(916) 643-5135
McCONNELL	KS	Lt Col Barr	(316) 652-5750
McGUIRE	NJ	Col Richard O. Cardinale	(609) 724-2642
MILDENHALL	England	Lt. Col Jim Frazer	011-44-1638-54-2205
MINOT	ND	Lt Col Michael W. Dronen	(701) 723-2434
MT HOME	ID	Lt Col Jon D. Verlinde	(208) 828-6353
OSAN	Korea	Lt Col Paul Rojko	DSN 315-784-4312
PATRICK	FL	Lt Col Tom Udall	(407) 494-4041
PETERSON	CO	Lt Col Sean Mcgoldrick	(719) 556-7631
POPE	NC	Lt Col Steven T. Tom	(910) 394-2561
RAMSTEIN	Germany	Col Tom Wilson	011-49-6371-47-6228
RANDOLPH	TX	Lt Col Brian Miller	(210) 652-2401
ROBINS	GA	Col Coggins	(912) 926-3093
SCOTT	IL	Lt Col Dean Waggoner	(618) 256-2701

BASE CIVIL ENGINEERS
(As of 11Mar 96)

BASE	STATE	NAME	PHONE
SEYMOUR-JOHNSON	NC	Lt Col Quincy D. Purvis	(919) 736-5511/12
SHAW	SC	Lt Col Maryann H. Chisholm	(803) 668-3414
SHEPPARD	TX	Lt Col Lavon Alston	(817) 676-2158
SPANGDAHLEM	Germany	Lt Col Tim Byers	011-49-6565-61-6040
TINKER	OK	Col Robert L. Bartlow	(405) 734-3451
TRAVIS	CA	Col Homer L. Guy	(707) 424-2492
USAF ACADEMY	CO	Col Gary Earls	(719) 472-2660
VANCE	OK	Major Dale R. Lavigne	(405) 249-7596
VANDENBERG	CA	Col Sam Garcia	(805) 734-8232
VOGELWEH	Germany	Col Thomas F. Wilson	49-6371-47-6228
WRIGHT-PATTERSON	OH	Col Louis F. Hauck	(513) 257-6214