DEPARTMENT OF THE AIR FORCE

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FY 1997 BIENNIAL BUDGET ESTIMATES

Military Construction and Family Housing

Justification Data
Submitted to Congress
February 1995

19950224 007

DTIC QUALITY INSPECTED 4

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

DISTRIBUTION STATEMENT A
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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FISCAL YEAR 1997

	PROJECT AUTH	AUTH FOR APPROP	APPROP
MILITARY CONSTRUCTION	(Sec 2301)	(Sec 2304)	
Inside the United States	391,031	391,031	391,031
Outside the United States	46,176	46,176	46,176
Planning and Design	10 USC 2807	32,417	32,417
Unspecified Minor Construction	10 USC 2805	9,328	9,328
TOTAL MILITARY CONSTRUCTION	**478,952**	**478,952**	**478,952**
MILITARY FAMILY HOUSING	(Sec 2302/2303)	(Sec 2304)	
New Construction	161,500	161,500	161,500
Improvements	87,800	87,800	87,800
Planning and Design	9,600	9,600	9,600
Subtotal	258,900	258,900	258,900
Operations, Utilities, and Maintenance	739,100	739,100	739,100
Leasing	118,100	118,100	118,100
Debt Payment[1]			
Subtotal	857,200	857,200	857,200
TOTAL MILITARY FAMILY HOUSING	**1,116,100**	**1,116,100**	**1,116,100**
GRAND TOTAL AIR FORCE	**1,595,052**	**1,595,052**	**1,595,052**

(1) Debt Payment cost of $30,000 excluded due to rounding.

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
ALASKA					
EIELSON AFB					
	CONVENTIONAL MUNITIONS MAINTENANCE SHOP	3,300	3,300	3,300	36
	REPAIR UTILIDOR PIPE	2,173	2,173	2,173	38
	EIELSON AFB TOTAL:	5,473	5,473	5,473	
ELMENDORF AFB					
	ADAL SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	14,500	14,500	14,500	41
	UPGRADE STORM DRAINAGE SYSTEM	2,100	2,100	2,100	43
	ELMENDORF AFB TOTAL:	16,600	16,600	16,600	
KING SALMON AIRPORT					
	LAND ACQUISITION	900	900	900	273
	KING SALMON AIRPORT TOTAL:	900	900	900	
	ALASKA TOTAL:	22,973	22,973	22,973	
ARIZONA					
DAVIS-MONTHAN AFB					
	AIRCRAFT MAINTENANCE FACILITY	4,500	4,500	4,500	46
	DAVIS-MONTHAN AFB TOTAL:	4,500	4,500	4,500	
	ARIZONA TOTAL:	4,500	4,500	4,500	
ARKANSAS					
LITTLE ROCK AFB					
	C-130 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	12,800	12,800	12,800	49
	CONTROL TOWER	2,400	2,400	2,400	51
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,200	1,200	1,200	53
	LITTLE ROCK AFB TOTAL:	16,400	16,400	16,400	
	ARKANSAS TOTAL:	16,400	16,400	16,400	

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
CALIFORNIA					
BEALE AFB					
	CARS DEPLOYABLE GROUND STATION SUPPORT FACILITY	7,000	7,000	7,000	56
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITY	1,500	1,500	1,500	58
	LANDFILL CLOSURE	5,000	5,000	5,000	60
	BEALE AFB TOTAL:	13,500	13,500	13,500	
EDWARDS AFB					
	RENOVATE AIRCRAFT MAINTENANCE FACILITY	8,000	8,000	8,000	63
	F-22 ALTER AIRCRAFT MAINTENANCE FACILITY	4,400	4,400	4,400	65
	ADD TO AND ALTER ANECHOIC CHAMBER	4,900	4,900	4,900	67
	CONVERT BOILERS	4,400	4,400	4,400	69
	EDWARDS AFB TOTAL:	21,700	21,700	21,700	
TRAVIS AFB					
	DORMITORY	6,600	6,600	6,600	72
	TRAVIS AFB TOTAL:	6,600	6,600	6,600	
VANDENBERG AFB					
	COMBAT ARMS FACILITY	1,010	1,010	1,010	75
	VANDENBERG AFB TOTAL:	1,010	1,010	1,010	
	CALIFORNIA TOTAL:	42,810	42,810	42,810	
COLORADO					
BUCKLEY ANGB					
	BASE SUPPLY AND EQUIPMENT WAREHOUSE	3,500	3,500	3,500	80
	BUCKLEY ANGB TOTAL:	3,500	3,500	3,500	
CHEYENNE AFB					
	DIESEL FUEL RESERVOIR	3,150	3,150	3,150	82
	CHEYENNE AFB TOTAL:	3,150	3,150	3,150	

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STATE/COUNTRY INSTALLATION FALCON AFS	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
	ALTER DINING FACILITY/SAFETY UPGRADE	1,700	1,700	1,700	85
	FALCON AFS TOTAL:	1,700	1,700	1,700	
USAF ACADEMY					
	UPGRADE ACADEMIC FACILITY	10,470	10,470	10,470	88
	USAF ACADEMY TOTAL:	10,470	10,470	10,470	
	COLORADO TOTAL:	18,820	18,820	18,820	
FLORIDA EGLIN AFB					
	UPGRADE DORMITORY	7,300	7,300	7,300	91
	UPGRADE STORM DRAINAGE SYSTEM	1,200	1,200	1,200	93
	EGLIN AFB TOTAL:	8,500	8,500	8,500	
EGLIN AUX FIELD #9					
	TRANSIENT PERSONNEL QUARTERS	7,098	7,098	7,098	96
	EGLIN AUX FIELD #9 TOTAL:	7,098	7,098	7,098	
PATRICK AFB					
	AIR FREIGHT/PASSENGER TERMINAL BASE OPERATIONS FACILITY	8,200	8,200	8,200	99
	CONTROL TOWER	2,200	2,200	2,200	101
	PATRICK AFB TOTAL:	10,400	10,400	10,400	
	FLORIDA TOTAL:	25,998	25,998	25,998	
GEORGIA MOODY AFB					
	REPAIR AND EXTEND RUNWAY	12,300	12,300	12,300	104
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000	1,000	1,000	274
	MOODY AFB TOTAL:	13,300	13,300	13,300	
ROBINS AFB					
	JSTARS ADAL AIRCRAFT APRON/ HYDRANT FUEL SYSTEM	7,100	7,100	7,100	108

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	JSTARS SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	9,100	9,100	9,100	110
	JSTARS AIRCRAFT MAINTENANCE HANGAR ASSOCIATED SHOPS	1,650	1,650	1,650	112
	JSTARS ADD TO AND ALTER DINING FACILITY	4,450	4,450	4,450	114
	JSTARS CHILD DEVELOPMENT CENTER	3,550	3,550	3,550	116
	ROBINS AFB TOTAL:	25,850	25,850	25,850	
	GEORGIA TOTAL:	39,150	39,150	39,150	
HAWAII					
HICKAM AFB					
	ALTER TRANSIENT DORMITORY	3,150	3,150	3,150	119
	HICKAM AFB TOTAL:	3,150	3,150	3,150	
	HAWAII TOTAL:	3,150	3,150	3,150	
IDAHO					
MOUNTAIN HOME AFB					
	FLIGHTLINE FIRE STATION	5,000	5,000	5,000	122
	IDAHO TRAINING RANGE (SOUTH SITE)	3,000	3,000	3,000	124
	MOUNTAIN HOME AFB TOTAL:	8,000	8,000	8,000	
	IDAHO TOTAL:	8,000	8,000	8,000	
LOUISIANA					
BARKSDALE AFB					
	COMMUNICATIONS SYSTEMS SQUADRON COMPLEX	2,600	2,600	2,600	127
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000	1,000	1,000	275
	BARKSDALE AFB TOTAL:	3,600	3,600	3,600	
	LOUISIANA TOTAL:	3,600	3,600	3,600	
MARYLAND					
ANDREWS AFB					
	ALTER DORMITORIES	8,700	8,700	8,700	130

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	ANDREWS AFB TOTAL:	8,700	8,700	8,700	
	MARYLAND TOTAL:	8,700	8,700	8,700	
MISSOURI					
WHITEMAN AFB					
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,200	1,200	1,200	133
	WHITEMAN AFB TOTAL:	1,200	1,200	1,200	
	MISSOURI TOTAL:	1,200	1,200	1,200	
MONTANA					
MALMSTROM AFB					
	CONTROL TOWER	2,000	2,000	2,000	136
	MALMSTROM AFB TOTAL:	2,000	2,000	2,000	
	MONTANA TOTAL:	2,000	2,000	2,000	
NEBRASKA					
OFFUTT AFB					
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,200	1,200	1,200	139
	OFFUTT AFB TOTAL:	1,200	1,200	1,200	
	NEBRASKA TOTAL:	1,200	1,200	1,200	
NEVADA					
NELLIS AFB					
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,350	1,350	1,350	142
	NELLIS AFB TOTAL:	1,350	1,350	1,350	
	NEVADA TOTAL:	1,350	1,350	1,350	
NEW JERSEY					
MCGUIRE AFB					
	SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT FACILITY	6,200	6,200	6,200	145
	MCGUIRE AFB TOTAL:	6,200	6,200	6,200	
	NEW JERSEY TOTAL:	6,200	6,200	6,200	

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
NEW MEXICO					
KIRTLAND AFB					
	ADD TO SANITARY SEWER SYSTEM	1,500	1,500	1,500	148
	KIRTLAND AFB TOTAL:	1,500	1,500	1,500	
	NEW MEXICO TOTAL:	1,500	1,500	1,500	
NORTH CAROLINA					
POPE AFB					
	DORMITORY	4,500	4,500	4,500	151
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000	1,000	1,000	276
	UPGRADE SANITARY SEWER SYSTEM	2,150	2,150	2,150	153
	POPE AFB TOTAL:	7,650	7,650	7,650	
SEYMOUR JOHNSON AFB					
	F-15 SQUADRON OPERATIONS/AMU/ ACADEMIC FACILITY	6,300	6,300	6,300	156
	F-15 ADD TO SIMULATOR TRAINING SYSTEM SUPPORT CENTER	6,600	6,600	6,600	158
	SEYMOUR JOHNSON AFB TOTAL:	12,900	12,900	12,900	
	NORTH CAROLINA TOTAL:	20,550	20,550	20,550	
NORTH DAKOTA					
GRAND FORKS AFB					
	KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	6,500	6,500	6,500	161
	GRAND FORKS AFB TOTAL:	6,500	6,500	6,500	
	NORTH DAKOTA TOTAL:	6,500	6,500	6,500	
OHIO					
WRIGHT-PATTERSON AFB					
	ADD TO AND ALTER ENGINEERING AND RESEARCH LABORATORY	7,500	7,500	7,500	164
	RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE IV	9,900	9,900	9,900	166
	UPGRADE STORM DRAINAGE SYSTEM	2,000	2,000	2,000	168

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	WRIGHT-PATTERSON AFB TOTAL:	19,400	19,400	19,400	
	OHIO TOTAL:	19,400	19,400	19,400	
OKLAHOMA					
ALTUS AFB					
	CHILD DEVELOPMENT CENTER COMPLEX	4,000	4,000	4,000	171
	ALTUS AFB TOTAL:	4,000	4,000	4,000	
TINKER AFB					
	CONSOLIDATED VEHICLE MAINTENANCE FACILITY (DBOF)	8,300	8,300	8,300	175
	UPGRADE STORM DRAINAGE SYSTEM	2,880	2,880	2,880	177
	B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM	5,400	5,400	5,400	179
	TINKER AFB TOTAL:	16,580	16,580	16,580	
	OKLAHOMA TOTAL:	20,580	20,580	20,580	
SOUTH CAROLINA					
CHARLESTON AFB					
	C-17 ADD TO AND ALTER APRON/ HYDRANT FUELING SYSTEM	13,200	13,200	13,200	182
	C-17 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	5,700	5,700	5,700	184
	C-17 ADD TO AND ALTER AIRCRAFT MAINTENANCE AND NDI SHOP	4,600	4,600	4,600	186
	C-17 AIRCRAFT MAINTENANCE FACILITY	5,800	5,800	5,800	188
	ADD TO AND ALTER DORMITORIES	5,800	5,800	5,800	190
	CHARLESTON AFB TOTAL:	35,100	35,100	35,100	
SHAW AFB					
	SECURITY POLICE OPERATIONS	3,760	3,760	3,760	193
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000	1,000	1,000	277
	UPGRADE SANITARY SEWER SYSTEM	2,750	2,750	2,750	195
	SHAW AFB TOTAL:	7,510	7,510	7,510	

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
	SOUTH CAROLINA TOTAL:	42,610	42,610	42,610	
SOUTH DAKOTA					
ELLSWORTH AFB					
	UNDERGROUND FUEL STORAGE TANKS	2,050	2,050	2,050	198
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITY	1,350	1,350	1,350	200
	ELLSWORTH AFB TOTAL:	3,400	3,400	3,400	
	SOUTH DAKOTA TOTAL:	3,400	3,400	3,400	
TENNESSEE					
ARNOLD AFB					
	UPGRADE ENGINE TEST FACILITIES REFRIGERATION SYSTEM, PLANT C	3,800	3,800	3,800	203
	ARNOLD AFB TOTAL:	3,800	3,800	3,800	
	TENNESSEE TOTAL:	3,800	3,800	3,800	
TEXAS					
DYESS AFB					
	ADD TO AND ALTER DORMITORIES	5,400	5,400	5,400	206
	CONSOLIDATED DINING FACILITY	5,100	5,100	5,100	208
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,150	1,150	1,150	210
	DYESS AFB TOTAL:	11,650	11,650	11,650	
KELLY AFB					
	WING SUPPORT FACILITY	3,380	3,380	3,380	213
	UPGRADE STORM DRAINAGE SYSTEM	2,200	2,200	2,200	215
	KELLY AFB TOTAL:	5,580	5,580	5,580	
LACKLAND AFB					
	UPGRADE RECRUIT DORMITORY	5,100	5,100	5,100	218
	LACKLAND AFB TOTAL:	5,100	5,100	5,100	
RANDOLPH AFB					
	JPATS ADD TO AND ALTER BEDDOWN FACILITIES	2,470	2,470	2,470	22[illegible]

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
	RANDOLPH AFB TOTAL:	2,470	2,470	2,470	
SHEPPARD AFB					
	CONSOLIDATED LOGISTICS COMPLEX	9,700	9,700	9,700	224
	SHEPPARD AFB TOTAL:	9,700	9,700	9,700	
	TEXAS TOTAL:	34,500	34,500	34,500	
VIRGINIA					
LANGLEY AFB					
	ADD TO AND ALTER HQ AIR COMBAT COMMAND FACILITIES	4,600	4,600	4,600	227
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000	1,000	1,000	278
	UPGRADE SANITARY SEWER SYSTEM	2,840	2,840	2,840	229
	LANGLEY AFB TOTAL:	8,440	8,440	8,440	
	VIRGINIA TOTAL:	8,440	8,440	8,440	
WASHINGTON					
FAIRCHILD AFB					
	KC-135 HYDRANT FUELING SYSTEM	10,900	10,900	10,900	232
	KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	6,300	6,300	6,300	234
	UNDERGROUND FUEL STORAGE TANKS	1,100	1,100	1,100	236
	FAIRCHILD AFB TOTAL:	18,300	18,300	18,300	
MCCHORD AFB					
	ALTER DORMITORIES	5,400	5,400	5,400	239
	MCCHORD AFB TOTAL:	5,400	5,400	5,400	
	WASHINGTON TOTAL:	23,700	23,700	23,700	
	INSIDE THE U.S. TOTAL:	391,031	391,031	391,031	

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
CLASSIFIED					
CLASSIFIED LOCATION					
	SPECIAL TACTICAL UNIT DETACHMENT FACILITY	4,226	4,226	4,226	241A
	MUNITIONS STORAGE IGLOOS	7,000	7,000	7,000	242
	WAR READINESS MATERIAL WAREHOUSES	6,000	6,000	6,000	244
	WAR READINESS MATERIAL WAREHOUSE	2,300	2,300	2,300	246
	CLASSIFIED LOCATION TOTAL:	19,526	19,526	19,526	
	CLASSIFIED TOTAL:	19,526	19,526	19,526	
GERMANY					
SPANGDAHLEM AB					
	ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM	3,400	3,400	3,400	249
	SPANGDAHLEM AB TOTAL:	3,400	3,400	3,400	
	GERMANY TOTAL:	3,400	3,400	3,400	
GREENLAND					
THULE AB					
	SOLID WASTE DISPOSAL FACILITIES	5,300	5,300	5,300	252
	THULE AB TOTAL:	5,300	5,300	5,300	
	GREENLAND TOTAL:	5,300	5,300	5,300	
TURKEY					
INCIRLIK AB					
	ADD TO AND ALTER PHYSICAL FITNESS CENTER	1,800	1,800	1,800	255
	INCIRLIK AB TOTAL:	1,800	1,800	1,800	
	TURKEY TOTAL:	1,800	1,800	1,800	
UNITED KINGDOM					
RAF CROUGHTON					
	FIRE STATION	1,800	1,800	1,800	258

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STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
	RAF CROUGHTON TOTAL:	1,800	1,800	1,800	
RAF LAKENHEATH					
	DORMITORY	3,800	3,800	3,800	261
	ADD TO AND ALTER WATER DISTRIBUTION MAINS	4,150	4,150	4,150	263
	RAF LAKENHEATH TOTAL:	7,950	7,950	7,950	
RAF MILDENHALL					
	DORMITORY	6,400	6,400	6,400	266
	RAF MILDENHALL TOTAL:	6,400	6,400	6,400	
	UNITED KINGDOM TOTAL:	16,150	16,150	16,150	
	OUTSIDE THE U.S. TOTAL:	46,176	46,176	46,176	

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(DOLLARS IN THOUSANDS)
WORLDWIDE

STATE/COUNTRY INSTALLATION	PROJECT	PROJECT AUTH	AUTH FOR APPROP	APPROP AMOUNT	PAGE
VARIOUS					
VARIOUS LOCATIONS					
	PLANNING AND DESIGN	32,417	32,417	32,417	269
	UNSPECIFIED MINOR CONSTRUCTION	9,328	9,328	9,328	271
	VARIOUS LOCATIONS TOTAL:	41,745	41,745	41,745	
	VARIOUS TOTAL:	41,745	41,745	41,745	
	WORLDWIDE TOTAL:	41,745	41,745	41,745	
	FY 1997 TOTAL:	478,952	478,952	478,952	

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 radars, 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	$203,591
CURRENT MISSION	$275,361
TOTAL:	$478,952

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CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
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STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
ALASKA			
EIELSON AFB			
	CONVENTIONAL MUNITIONS MAINTENANCE SHOP	3,300	CM
	REPAIR UTILIDOR PIPE	2,173	CM
	EIELSON AFB TOTAL:	5,473	
ELMENDORF AFB			
	ADAL SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	14,500	CM
	UPGRADE STORM DRAINAGE SYSTEM	2,100	CME
	ELMENDORF AFB TOTAL:	16,600	
KING SALMON AIRPORT			
	LAND ACQUISITION	900	CM
	KING SALMON AIRPORT TOTAL:	900	
	ALASKA TOTAL:	22,973	
ARIZONA			
DAVIS-MONTHAN AFB			
	AIRCRAFT MAINTENANCE FACILITY	4,500	NM
	DAVIS-MONTHAN AFB TOTAL:	4,500	
	ARIZONA TOTAL:	4,500	
ARKANSAS			
LITTLE ROCK AFB			
	C-130 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	12,800	NM
	CONTROL TOWER	2,400	CM
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,200	CME
	LITTLE ROCK AFB TOTAL:	16,400	
	ARKANSAS TOTAL:	16,400	

Legend: CM - Current Mission
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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
CALIFORNIA			
BEALE AFB			
	CARS DEPLOYABLE GROUND STATION SUPPORT FACILITY	7,000	NM
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITY	1,500	CME
	LANDFILL CLOSURE	5,000	CME
	BEALE AFB TOTAL:	13,500	
EDWARDS AFB			
	RENOVATE AIRCRAFT MAINTENANCE FACILITY	8,000	CM
	F-22 ALTER AIRCRAFT MAINTENANCE FACILITY	4,400	NM
	ADD TO AND ALTER ANECHOIC CHAMBER	4,900	NM
	CONVERT BOILERS	4,400	CME
	EDWARDS AFB TOTAL:	21,700	
TRAVIS AFB			
	DORMITORY	6,600	CM
	TRAVIS AFB TOTAL:	6,600	
VANDENBERG AFB			
	COMBAT ARMS FACILITY	1,010	CM
	VANDENBERG AFB TOTAL:	1,010	
	CALIFORNIA TOTAL:	42,810	
COLORADO			
BUCKLEY ANGB			
	BASE SUPPLY AND EQUIPMENT WAREHOUSE	3,500	NM
	BUCKLEY ANGB TOTAL:	3,500	
CHEYENNE AFB			
	DIESEL FUEL RESERVOIR	3,150	CME

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
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STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
	CHEYENNE AFB TOTAL:	3,150	
FALCON AFS			
	ALTER DINING FACILITY/SAFETY UPGRADE	1,700	CM
	FALCON AFS TOTAL:	1,700	
USAF ACADEMY			
	UPGRADE ACADEMIC FACILITY	10,470	CM
	USAF ACADEMY TOTAL:	10,470	
	COLORADO TOTAL:	18,820	
FLORIDA			
EGLIN AFB			
	UPGRADE DORMITORY	7,300	CM
	UPGRADE STORM DRAINAGE SYSTEM	1,200	CME
	EGLIN AFB TOTAL:	8,500	
EGLIN AUX FIELD #9			
	TRANSIENT PERSONNEL QUARTERS	7,098	CM
	EGLIN AUX FIELD #9 TOTAL:	7,098	
PATRICK AFB			
	AIR FREIGHT/PASSENGER TERMINAL BASE OPERATIONS FACILITY	8,200	CM
	CONTROL TOWER	2,200	CM
	PATRICK AFB TOTAL:	10,400	
	FLORIDA TOTAL:	25,998	
GEORGIA			
MOODY AFB			
	REPAIR AND EXTEND RUNWAY	12,300	CM
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000	CME
	MOODY AFB TOTAL:	13,300	

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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
ROBINS AFB			
	JSTARS ADAL AIRCRAFT APRON/ HYDRANT FUEL SYSTEM	7,100	NM
	JSTARS SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	9,100	NM
	JSTARS AIRCRAFT MAINTENANCE HANGAR ASSOCIATED SHOPS	1,650	NM
	JSTARS ADD TO AND ALTER DINING FACILITY	4,450	NM
	JSTARS CHILD DEVELOPMENT CENTER	3,550	NM
	ROBINS AFB TOTAL:	25,850	
	GEORGIA TOTAL:	39,150	
HAWAII			
HICKAM AFB			
	ALTER TRANSIENT DORMITORY	3,150	CM
	HICKAM AFB TOTAL:	3,150	
	HAWAII TOTAL:	3,150	
IDAHO			
MOUNTAIN HOME AFB			
	FLIGHTLINE FIRE STATION	5,000	CM
	IDAHO TRAINING RANGE (SOUTH SITE)	3,000	NM
	MOUNTAIN HOME AFB TOTAL:	8,000	
	IDAHO TOTAL:	8,000	
LOUISIANA			
BARKSDALE AFB			
	COMMUNICATIONS SYSTEMS SQUADRON COMPLEX	2,600	NM

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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
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000	CME
	BARKSDALE AFB TOTAL:	3,600	
	LOUISIANA TOTAL:	3,600	
MARYLAND			
ANDREWS AFB			
	ALTER DORMITORIES	8,700	CM
	ANDREWS AFB TOTAL:	8,700	
	MARYLAND TOTAL:	8,700	
MISSOURI			
WHITEMAN AFB			
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,200	CME
	WHITEMAN AFB TOTAL:	1,200	
	MISSOURI TOTAL:	1,200	
MONTANA			
MALMSTROM AFB			
	CONTROL TOWER	2,000	CM
	MALMSTROM AFB TOTAL:	2,000	
	MONTANA TOTAL:	2,000	
NEBRASKA			
OFFUTT AFB			
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,200	CME
	OFFUTT AFB TOTAL:	1,200	
	NEBRASKA TOTAL:	1,200	
NEVADA			
NELLIS AFB			
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,350	CME

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1997
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
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STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
	NELLIS AFB TOTAL:	1,350	
	NEVADA TOTAL:	1,350	
NEW JERSEY			
MCGUIRE AFB			
	SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT FACILITY	6,200	CM
	MCGUIRE AFB TOTAL:	6,200	
	NEW JERSEY TOTAL:	6,200	
NEW MEXICO			
KIRTLAND AFB			
	ADD TO SANITARY SEWER SYSTEM	1,500	CME
	KIRTLAND AFB TOTAL:	1,500	
	NEW MEXICO TOTAL:	1,500	
NORTH CAROLINA			
POPE AFB			
	DORMITORY	4,500	CM
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000	CME
	UPGRADE SANITARY SEWER SYSTEM	2,150	CME
	POPE AFB TOTAL:	7,650	
SEYMOUR JOHNSON AFB			
	F-15 SQUADRON OPERATIONS/AMU/ ACADEMIC FACILITY	6,300	NM
	F-15 ADD TO SIMULATOR TRAINING SYSTEM SUPPORT CENTER	6,600	NM
	SEYMOUR JOHNSON AFB TOTAL:	12,900	
	NORTH CAROLINA TOTAL:	20,550	

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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 DAKOTA			
GRAND FORKS AFB			
	KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	6,500	NM
	GRAND FORKS AFB TOTAL:	6,500	
	NORTH DAKOTA TOTAL:	6,500	
OHIO			
WRIGHT-PATTERSON AFB			
	ADD TO AND ALTER ENGINEERING AND RESEARCH LABORATORY	7,500	CM
	RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE IV	9,900	CM
	UPGRADE STORM DRAINAGE SYSTEM	2,000	CME
	WRIGHT-PATTERSON AFB TOTAL:	19,400	
	OHIO TOTAL:	19,400	
OKLAHOMA			
ALTUS AFB			
	CHILD DEVELOPMENT CENTER COMPLEX	4,000	CM
	ALTUS AFB TOTAL:	4,000	
TINKER AFB			
	CONSOLIDATED VEHICLE MAINTENANCE FACILITY (DBOF)	8,300	CM
	UPGRADE STORM DRAINAGE SYSTEM	2,880	CME
	B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM	5,400	NM
	TINKER AFB TOTAL:	16,580	
	OKLAHOMA TOTAL:	20,580	
SOUTH CAROLINA			
CHARLESTON AFB			
	C-17 ADD TO AND ALTER APRON/ HYDRANT FUELING SYSTEM	13,200	NM

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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
	C-17 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	5,700	NM
	C-17 ADD TO AND ALTER AIRCRAFT MAINTENANCE AND NDI SHOP	4,600	NM
	C-17 AIRCRAFT MAINTENANCE FACILITY	5,800	NM
	ADD TO AND ALTER DORMITORIES	5,800	CM
	CHARLESTON AFB TOTAL:	35,100	
SHAW AFB			
	SECURITY POLICE OPERATIONS	3,760	CM
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000	CME
	UPGRADE SANITARY SEWER SYSTEM	2,750	CME
	SHAW AFB TOTAL:	7,510	
	SOUTH CAROLINA TOTAL:	42,610	
SOUTH DAKOTA			
ELLSWORTH AFB			
	UNDERGROUND FUEL STORAGE TANKS	2,050	CME
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITY	1,350	CME
	ELLSWORTH AFB TOTAL:	3,400	
	SOUTH DAKOTA TOTAL:	3,400	
TENNESSEE			
ARNOLD AFB			
	UPGRADE ENGINE TEST FACILITIES REFRIGERATION SYSTEM, PLANT C	3,800	CME
	ARNOLD AFB TOTAL:	3,800	
	TENNESSEE TOTAL:	3,800	
TEXAS			
DYESS AFB			
	ADD TO AND ALTER DORMITORIES	5,400	CM

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DEPARTMENT OF THE AIR FORCE
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CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT	APPROP AMOUNT	TYPE
	CONSOLIDATED DINING FACILITY	5,100	CM
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,150	CME
	DYESS AFB TOTAL:	11,650	
KELLY AFB			
	WING SUPPORT FACILITY	3,380	CM
	UPGRADE STORM DRAINAGE SYSTEM	2,200	CME
	KELLY AFB TOTAL:	5,580	
LACKLAND AFB			
	UPGRADE RECRUIT DORMITORY	5,100	CM
	LACKLAND AFB TOTAL:	5,100	
RANDOLPH AFB			
	JPATS ADD TO AND ALTER BEDDOWN FACILITIES	2,470	NM
	RANDOLPH AFB TOTAL:	2,470	
SHEPPARD AFB			
	CONSOLIDATED LOGISTICS COMPLEX	9,700	CM
	SHEPPARD AFB TOTAL:	9,700	
	TEXAS TOTAL:	34,500	
VIRGINIA			
LANGLEY AFB			
	ADD TO AND ALTER HQ AIR COMBAT COMMAND FACILITIES	4,600	CM
	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000	CME
	UPGRADE SANITARY SEWER SYSTEM	2,840	CME
	LANGLEY AFB TOTAL:	8,440	
	VIRGINIA TOTAL:	8,440	

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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 HYDRANT FUELING SYSTEM	10,900	NM
	KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	6,300	NM
	UNDERGROUND FUEL STORAGE TANKS	1,100	CME
	FAIRCHILD AFB TOTAL:	18,300	
MCCHORD AFB			
	ALTER DORMITORIES	5,400	CM
	MCCHORD AFB TOTAL:	5,400	
	WASHINGTON TOTAL:	23,700	
	INSIDE THE U.S. TOTAL:	391,031	
CLASSIFIED			
CLASSIFIED LOCATION			
	SPECIAL TACTICAL UNIT DETACHMENT FACILITY	4,226	NM
	MUNITIONS STORAGE IGLOOS	7,000	NM
	WAR READINESS MATERIAL WAREHOUSES	6,000	NM
	WAR READINESS MATERIAL WAREHOUSE	2,300	NM
	CLASSIFIED LOCATION TOTAL:	19,526	
	CLASSIFIED TOTAL:	19,526	
GERMANY			
SPANGDAHLEM AB			
	ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM	3,400	CM
	SPANGDAHLEM AB TOTAL:	3,400	
	GERMANY TOTAL:	3,400	

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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
GREENLAND			
THULE AB			
	SOLID WASTE DISPOSAL FACILITIES	5,300	CME
	THULE AB TOTAL:	5,300	
	GREENLAND TOTAL:	5,300	
TURKEY			
INCIRLIK AB			
	ADD TO AND ALTER PHYSICAL FITNESS CENTER	1,800	CM
	INCIRLIK AB TOTAL:	1,800	
	TURKEY TOTAL:	1,800	
UNITED KINGDOM			
RAF CROUGHTON			
	FIRE STATION	1,800	CM
	RAF CROUGHTON TOTAL:	1,800	
RAF LAKENHEATH			
	DORMITORY	3,800	CM
	ADD TO AND ALTER WATER DISTRIBUTION MAINS	4,150	CM
	RAF LAKENHEATH TOTAL:	7,950	
RAF MILDENHALL			
	DORMITORY	6,400	CM
	RAF MILDENHALL TOTAL:	6,400	
	UNITED KINGDOM TOTAL:	16,150	
	OUTSIDE THE U.S. TOTAL:	46,176	
VARIOUS			
VARIOUS LOCATIONS			
	UNSPECIFIED MINOR CONSTRUCTION	9,328	WW

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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
	PLANNING AND DESIGN	32,417	WW
	VARIOUS LOCATIONS TOTAL:	41,745	
	VARIOUS TOTAL:	41,745	
	WORLDWIDE TOTAL:	41,745	
	FY 1997 TOTAL:	478,952	

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MILITARY CONSTRUCTION PROGRAM
FY 1997 PRESIDENT'S BUDGET
INSTALLATION INDEX

INSTALLATION	COMMAND	STATE/COUNTRY	PAGE
ALTUS AFB	AETC	OKLAHOMA	170
ANDREWS AFB	AMC	MARYLAND	129
ARNOLD AFB	AFMC	TENNESSEE	202
BARKSDALE AFB	ACC	LOUISIANA	126
BEALE AFB	ACC	CALIFORNIA	55
BUCKLEY ANGB	AFMC	COLORADO	79
CHARLESTON AFB	AMC	SOUTH CAROLINA	181
CHEYENNE AFB	SPACECOM	COLORADO	81
CLASSIFIED LOCATIONS	LEE	CLASSIFIED	241
RAF CROUGHTON	PACAF	UNITED KINGDOM	257
DAVIS-MONTHAN AFB	ACC	ARIZONA	45
DYESS AFB	AETC	TEXAS	205
EDWARDS AFB	AFMC	CALIFORNIA	62
EGLIN AFB	AFMC	FLORIDA	90
EGLIN AUX FIELD #9	AFSOC	FLORIDA	95
EIELSON AFB	PACAF	ALASKA	35
ELLSWORTH	ACC	SOUTH DAKOTA	197
ELMENDORF AFB	PACAF	ALASKA	40
FAIRCHILD AFB	AMC	WASHINGTON	231
FALCON AFS	SPACECOM	COLORADO	84
GRAND FORKS AFB	AMC	NORTH DAKOTA	160
HICKAM AFB	PACAF	HAWAII	118
INCIRLIK AB	USAFE	TURKEY	254
KELLY AFB	AFIA	TEXAS	212
KING SALMON AIRPORT	PACAF	ALASKA	273
KIRTLAND AFB	AFMC	NEW MEXICO	147
LACKLAND AFB	AETC	TEXAS	217
RAF LAKENHEATH	USAFE	UNITED KINGDOM	260
LANGLEY AFB	ACC	VIRGINIA	226
LITTLE ROCK AFB	ACC	ARKANSAS	48
MALMSTROM AFB	SPACECOM	MONTANA	135
MCCHORD AFB	AMC	WASHINGTON	238
MCGUIRE AFB	AMC	NEW JERSEY	144

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FY 1997 PRESIDENT'S BUDGET
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INSTALLATION	COMMAND	STATE/COUNTRY	PAGE
RAF MILDENHALL	USAFE	UNITED KINGDOM	265
MOODY AFB	ACC	GEORGIA	103
MOUNTAIN HOME AFB	ACC	IDAHO	121
NELLIS AFB	ACC	NEVADA	141
OFFUTT AFB	ACC	NEBRASKA	138
PATRICK AFB	SPACECOM	FLORIDA	98
POPE AFB	ACC	NORTH CAROLINA	150
RANDOLPH AFB	AETC	TEXAS	220
ROBINS AFB	ACC	GEORGIA	106
SEYMOUR JOHNSON AFB	ACC	NORTH CAROLINA	155
SHAW AFB	ACC	SOUTH CAROLINA	192
SHEPPARD AFB	AETC	TEXAS	223
SPANGDAHLEM AB	USAFE	GERMANY	248
THULE AB	SPACECOM	GREENLAND	251
TINKER AFB	AFMC	OKLAHOMA	173
TRAVIS AFB	AMC	CALIFORNIA	71
USAF ACADEMY	USAFA	COLORADO	87
VANDENBERG AFB	SPACECOM	CALIFORNIA	74
VARIOUS LOCATIONS	SUPPORT	WORLDWIDE	268
WHITEMAN AFB	ACC	MISSOURI	132
WRIGHT-PATTERSON AFB	AFMC	OHIO	163

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 1996 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 on 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 $58 million for requirements necessary to correct current environmental noncompliance situations and to prevent future noncompliance. The request is the result of an intense effort to correct environmental concerns existing in five major infrastructure areas: wastewater treatment systems, corrosion control systems, hydrant refueling systems, underground storage tank systems, and live fire training facilities.

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 to 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 96 Military Construction and Family Housing programs were 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 96 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

MILTARY 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 $478,952,000 to remain available until September 30, 2000: Provided that, of this amount, not to exceed $32,417,000, 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 therefor.

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1990

Identification code 57-3300-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction				
00.0201	Minor construction				
00.0301	Planning				
00.0401	Supporting activities				
00.9101	Total direct program				
10.0001	Total				
	Financing:				
17.0001	Recovery of prior year obligations				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
21.4003	Available to finance new budget plans	-8,315			
21.4009	Reprograming from/to prior year budget plans	-20,042			
25.0001	Unobligated balance expiring	20,042			
40.0001	Budget authority (Appropriation rescinded) (	-8,315			

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1990

Identification code 57-3300-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction	36,722			
00.0201	Minor construction	311			
00.0301	Planning	535			
00.0401	Supporting activities	1,445			
00.9101	Total direct program	39,013			
10.0001	Total	39,013			
	Financing:				
17.0001	Recovery of prior year obligations	-1,332			
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-57,723			
21.4003	Available to finance new budget plans	-8,315			
21.4009	Reprograming from/to prior year budget plans				
25.0001	Unobligated balance expiring	20,042			
40.0001	Budget authority (Appropriation rescinded) (	-8,315			

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

Identification code 57-3300-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction				
00.0201	Minor construction				
00.0301	Planning				
00.0401	Supporting activities				
00.9101	Total direct program				
10.0001	Total				
	Financing:				
17.0001	Recovery of prior year obligations				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
21.4003	Available to finance new budget plans	-6,550			
21.4009	Reprograming from/to prior year budget plans	-1,660			
22.0001	Unobligated balance transferred to other accounts	1,660			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
40.0001	Budget authority (Appropriation rescinded) (	-6,550			

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

Identification code 57-3300-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction	78,727	40,251		
00.0201	Minor construction		165		
00.0301	Planning	962			
00.0401	Supporting activities	4,798	4,470		
00.9101	Total direct program	84,487	44,886		
10.0001	Total	84,487	44,886		
	Financing:				
17.0001	Recovery of prior year obligations	-2,822			
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-128,211	-44,886		
21.4003	Available to finance new budget plans	-6,550			
21.4009	Reprograming from/to prior year budget plans				
22.0001	Unobligated balance transferred to other accounts	1,660			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	44,886			
40.0001	Budget authority (Appropriation rescinded) (	-6,550			

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

Identification code 57-3300-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction				
00.0201	Minor construction				
00.0301	Planning				
00.0401	Supporting activities				
00.9101	Total direct program				
10.0001	Total				
	Financing:				
17.0001	Recovery of prior year obligations				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
21.4003	Available to finance new budget plans	-12,980	-3,029		
21.4009	Reprograming from/to prior year budget plans	-9,804			
22.0001	Unobligated balance transferred to other accounts	6,775			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
24.4003	Available to finance subsequent year budget plans	3,029			
39.0001	Budget authority	-12,980	-3,029		
	Budget authority:				
40.0001	Appropriation rescinded (unob bal)	-12,980			
40.7903	Reduction pursuant to P.L. 103-307 (-)		-3,029		
43.0001	Appropriation (adjusted)	-12,980	-3,029		

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

Identification code 57-3300-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction	164,179	88,805	53,614	
00.0201	Minor construction	8,814	1,176		
00.0301	Planning	12,894	6,133	4,400	
00.0401	Supporting activities	855	723	1,065	
00.9101	Total direct program	186,742	96,837	59,079	
10.0001	Total	186,742	96,837	59,079	
	Financing:				
17.0001	Recovery of prior year obligations	-109			
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-352,352	-155,916	-59,079	
21.4003	Available to finance new budget plans	-12,980	-3,029		
21.4009	Reprograming from/to prior year budget plans				
22.0001	Unobligated balance transferred to other accounts	6,775			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	155,916	59,079		
24.4003	Available to finance subsequent year budget plans	3,029			
39.0001	Budget authority	-12,980	-3,029		
	Budget authority:				
40.0001	Appropriation rescinded (unob bal)	-12,980			
40.7903	Reduction pursuant to P.L. 103-307 (-)		-3,029		
43.0001	Appropriation (adjusted)	-12,980	-3,029		

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

Identification code 57-3300-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction				
00.0201	Minor construction				
00.0301	Planning				
00.9101	Total direct program				
10.0001	Total				
	Financing:				
17.0001	Recovery of prior year obligations				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
21.4003	Available to finance new budget plans	-2,250			
21.4009	Reprograming from/to prior year budget plans	-16,685			
22.0001	Unobligated balance transferred to other accounts	16,685			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
40.0001	Budget authority (Appropriation rescinded) (	-2,250			

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

Identification code 57-3300-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction	240,940	38,578	69,566	18,636
00.0201	Minor construction	450	823		
00.0301	Planning	29,131	3,700	2,269	2,086
00.9101	Total direct program	270,521	43,101	71,835	20,722
10.0001	Total	270,521	43,101	71,835	20,722
	Financing:				
17.0001	Recovery of prior year obligations	-2,632			
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-420,232	-135,658	-92,557	-20,722
21.4003	Available to finance new budget plans	-2,250			
21.4009	Reprograming from/to prior year budget plans				
22.0001	Unobligated balance transferred to other accounts	16,685			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	135,658	92,557	20,722	
40.0001	Budget authority (Appropriation rescinded) (	-2,250			

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

Identification code 57-3300-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction	920,193			
00.0201	Minor construction	8,555			
00.0301	Planning	63,882			
00.0401	Supporting activities	7,150			
00.9101	Total direct program	999,780			
10.0001	Total	999,780			
	Financing:				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
22.0001	Unobligated balance transferred to other accounts	-3,000			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
40.0001	Budget authority (Appropriation)	996,780			

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

Identification code 57-3300-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction	553,007	259,126	69,459	27,152
00.0201	Minor construction	7,551	1,004		
00.0301	Planning	29,464	7,666	7,666	2,555
00.0401	Supporting activities		2,145	858	286
00.9101	Total direct program	590,022	269,941	77,983	29,993
10.0001	Total	590,022	269,941	77,983	29,993
	Financing:				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans		-409,758	-139,817	-61,834
22.0001	Unobligated balance transferred to other accounts	-3,000			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	409,758	139,817	61,834	31,841
40.0001	Budget authority (Appropriation)	996,780			

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

Identification code 57-3300-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction		460,427		
00.0201	Minor construction		7,000		
00.0301	Planning		49,386		
00.9101	Total direct program		516,813		
01.0101	Reimbursable program		323		
10.0001	Total		517,136		
	Financing:				
	Offsetting collections from:				
11.0001	Federal funds(-)		-323		
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
40.0001	Budget authority (Appropriation)		516,813		

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

Identification code 57-3300-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction		281,776	152,288	19,093
00.0201	Minor construction		3,500	2,100	840
00.0301	Planning		24,683	5,924	5,924
00.9101	Total direct program		309,959	160,312	25,857
01.0101	Reimbursable program		323		
10.0001	Total		310,282	160,312	25,857
	Financing:				
	Offsetting collections from:				
11.0001	Federal funds(-)		-323		
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans			-206,854	-46,542
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans		206,854	46,542	20,685
40.0001	Budget authority (Appropriation)		516,813		

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

Identification code 57-3300-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction			455,790	
00.0201	Minor construction			9,030	
00.0301	Planning			30,835	
00.9101	Total direct program			495,655	
10.0001	Total			495,655	
	Financing:				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
40.0001	Budget authority (Appropriation)			495,655	

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

Identification code 57-3300-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction			226,895	169,841
00.0201	Minor construction			4,515	2,709
00.0301	Planning			16,418	9,851
00.9101	Total direct program			247,828	182,401
10.0001	Total			247,828	182,401
	Financing:				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				-247,827
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans			247,827	65,426
40.0001	Budget authority (Appropriation)			495,655	

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

Identification code 57-3300-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction				437,207
00.0201	Minor construction				9,328
00.0301	Planning				32,417
00.9101	Total direct program				478,952
10.0001	Total				478,952
	Financing:				
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
40.0001	Budget authority (Appropriation)				478,952

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

Identification code 57-3300-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction				215,603
00.0201	Minor construction				4,664
00.0301	Planning				19,209
00.9101	Total direct program				239,476
10.0001	Total				239,476
	Financing:				
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				239,476
40.0001	Budget authority (Appropriation)				478,952

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

Identification code 57-3300-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction	920,193	460,427	455,790	437,207
00.0201	Minor construction	8,555	7,000	9,030	9,328
00.0301	Planning	63,882	49,386	30,835	32,417
00.0401	Supporting activities	7,150			
00.9101	Total direct program	999,780	516,813	495,655	478,952
01.0101	Reimbursable program		323		
10.0001	Total	999,780	517,136	495,655	478,952
	Financing:				
	Offsetting collections from:				
11.0001	Federal funds(-)		-323		
17.0001	Recovery of prior year obligations				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
21.4003	Available to finance new budget plans	-30,095	-3,029		
21.4009	Reprograming from/to prior year budget plans	-48,191			
22.0001	Unobligated balance transferred to other accounts	22,120			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
24.4003	Available to finance subsequent year budget plans	3,029			
25.0001	Unobligated balance expiring	20,042			
39.0001	Budget authority	966,685	513,784	495,655	478,952
	Budget authority:				
40.0001	Appropriation	966,685	516,813	495,655	478,952
40.7903	Reduction pursuant to P.L. 103-307 (-)		-3,029		
43.0001	Appropriation (adjusted)	966,685	513,784	495,655	478,952
	Relation of obligations to outlays:				
71.0001	Obligations incurred				
72.1001	Receivables from other government accts. SOY				
72.4001	Obligated balance, start of year				
74.1001	Receivables from other government accts, EOY				
74.4001	Obligated balance, end of year				
77.0001	Adjustments in expired accounts (net)				
78.0001	Adjustments in unexpired accounts				
90.0001	Outlays (net)				

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

Identification code 57-3300-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
00.0101	Major construction	1,073,575	708,536	571,822	450,325
00.0201	Minor construction	17,126	6,668	6,615	8,213
00.0301	Planning	72,986	42,182	36,677	39,625
00.0401	Supporting activities	7,098	7,338	1,923	286
00.9101	Total direct program	1,170,785	764,724	617,037	498,449
01.0101	Reimbursable program		323		
10.0001	Total	1,170,785	765,047	617,037	498,449
	Financing:				
	Offsetting collections from:				
11.0001	Federal funds(-)		-323		
17.0001	Recovery of prior year obligations	-6,895			
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-958,518	-746,218	-498,307	-376,925
21.4003	Available to finance new budget plans	-30,095	-3,029		
21.4009	Reprograming from/to prior year budget plans				
22.0001	Unobligated balance transferred to other accounts	22,120			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	746,218	498,307	376,925	357,428
24.4003	Available to finance subsequent year budget plans	3,029			
25.0001	Unobligated balance expiring	20,042			
39.0001	Budget authority	966,685	513,784	495,655	478,952
	Budget authority:				
40.0001	Appropriation	966,685	516,813	495,655	478,952
40.7903	Reduction pursuant to P.L. 103-307 (-)		-3,029		
43.0001	Appropriation (adjusted)	966,685	513,784	495,655	478,952
	Relation of obligations to outlays:				
71.0001	Obligations incurred	1,170,785	764,724	617,037	498,449
72.1001	Receivables from other government accts. SOY	-723	-707		
72.4001	Obligated balance, start of year	979,575	1,190,861	1,102,143	978,894
74.1001	Receivables from other government accts, EOY	707			
74.4001	Obligated balance, end of year	-1,190,861	-1,102,143	-978,894	-849,541
77.0001	Adjustments in expired accounts (net)	-2,134			
78.0001	Adjustments in unexpired accounts	-6,895			
90.0001	Outlays (net)	950,454	852,735	740,286	627,802

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

Identification code 57-3300-0-1-051	1994 actual	1995 est.	1996 est.	1997 est.
Direct obligations:				
132.001 Land and structures	1,170,785	764,724	617,037	498,449
199.001 Total Direct obligations	1,170,785	764,724	617,037	498,449
Reimbursable obligations:				
232.001 Land and structures		323		
299.001 Total Reimbursable obligations		323		
999.901 Total obligations	1,170,785	765,047	617,037	498,449
Obligations are distributed as follows:				
Defense-Military:Army	962,076	567,057	476,069	398,631
Defense-Military:Navy	104,062	84,549	71,433	59,720
Defense-Military:Air Force	97,548	106,103	67,612	39,812
Department of Transportation	7,099	7,338	1,923	286
Total Obligations	1,170,785	765,047	617,037	498,449

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			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
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:	5,473
e. Authorization Included In Following Program: (FY 1998)	1,400
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	280,181
h. Grand Total:	765,169

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
216-642	CONVENTIONAL MUNITIONS MAINTENANCE SHOP	6,200 SF	3,300	JUN 94	JUL 95
890-185	REPAIR UTILIDOR PIPE	1,550 LF	2,173	JAN 95	NOV 96
		TOTAL:	5,473		

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

880-232	UPGRADE FIRE SUPPRESSION SYSTEMS	58,906 SF	600
880-232	UPGRADE NOSEDOCK FIRE SUPPRESSION SYSTEM	26,302 SF	800
		TOTAL:	1,400

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.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	2,700
c. Occupational safety and health:	0
d. Other Environmental:	2,800

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	CONVENTIONAL MUNITIONS MAINTENANCE SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.80.30	216-642	FTQW933012	3,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONVENTIONAL MUNITIONS MAINTENANCE SHOP	SF	6,200	220	1,364
SUPPORTING FACILITIES				1,560
UTILITIES	LS			(145)
SITE IMPROVEMENTS	LS			(580)
PAVEMENTS	LS			(245)
WATER STORAGE	LS			(275)
COMMUNICATIONS SUPPORT	LS			(70)
DEMOLITION	SF	4,800	38	(180)
SITE REMEDIATION	CY	5,000	13	(65)
SUBTOTAL				2,924
CONTINGENCY (5%)				146
TOTAL CONTRACT COST				3,070
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				200
TOTAL REQUEST				3,270
TOTAL REQUEST (ROUNDED)				3,300

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab with insulated walls and roofing system. Facility includes four pull-through bays with overhead hoist; separate tool, mechanical, and air compressor rooms; administrative areas and bathrooms. Includes access road, water and septic system, water storage tank for fire suppression, electric, and all necessary support. Demolish two substandard facilities.

11. REQUIREMENT: 12,840 SF ADEQUATE: 0 SUBSTANDARD: 4,790 SF

PROJECT: Construct a conventional munitions maintenance shop. (Current Mission)

REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A conventional munitions maintenance facility is needed in proximity to the flightline, meeting explosive safety criteria and capable of supporting tactical sortie and COPE THUNDER training requirements in a timely manner and under all weather conditions. Facility must have four bays with pull-through capability. The use of 40-foot trailers and the necessity to store all equipment in the bays due to the arctic climate justifies the bay size and pull-through requirement.

CURRENT SITUATION: Munitions maintenance and inspection functions share two facilities, seven and five miles, respectively, from the flightline and over twelve miles from each other. The shared facilities are inadequate, multiple explosive operations cannot be conducted simultaneously, and explosive operations cannot be carried out while munitions inspections are being performed. The distances involved and road conditions slow sortie support and greatly increase the possibility of accidents. The existing structures cannot be upgraded to meet current safety regulations or to promote efficient operations. The demolition of a wood framed building (800 SF) and a steel framed building (4,000 SF)

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
CONVENTIONAL MUNITIONS MAINTENANCE SHOP	FTQW933012

will be accomplished upon construction of this project.

IMPACT IF NOT PROVIDED: This facility is part of a planned munitions complex which will consolidate the munitions facilities to allow safe and efficient munitions operations in support of the tactical mission and COPE THUNDER training operations. Without this project, manhours will continue to be wasted in dangerous travel conditions, and excessive wear to tow vehicles and munitions trailers will limit their useful life. Continued collocation of the maintenance and inspection functions will prevent safe operations and limit productivity. Required contingency munitions generation rates cannot be met.

ADDITIONAL: There is no criteria/scope for this activity 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". A preliminary analysis of reasonable options for accomplishing this project (status quo, revitalization, leasing, and new construction) was done. It indicates there is only one alternative 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	4. PROJECT TITLE
EIELSON AIR FORCE BASE, ALASKA	REPAIR UTILIDOR PIPE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96P	890-185	FTQW973012	2,173

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPAIR UTILIDOR PIPE	LF	1,550	400	620
SUPPORTING FACILITIES				1,220
BORROW FILL	CY	6,000	15	(90)
EXCAVATE/HAUL CONTAMINATED SOIL	CY	6,000	8	(50)
REMOVE TYPICAL ASBESTOS MATERIALS	LS			(350)
REPLACE PIPE AND JOINTS	LS			(80)
REPLACE PIPE INSULATION	LS			(475)
REPLACE UTILIDOR LIDS	LS			(175)
SUBTOTAL				1,840
CONTINGENCY (10%)				184
TOTAL CONTRACT COST				2,024
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				132
TOTAL REQUEST				2,156
TOTAL REQUEST (ROUNDED)				2,173

10. Description of Proposed Construction: Abate asbestos-containing materials and replace condensate piping in approximately 1,550 lineal feet of utilidor. Replace expansion couplings in both steam and condensate piping as well as installing valves and fittings.

11. REQUIREMENT: 1,550 LF ADEQUATE: 0 SUBSTANDARD: 1,550 LF

PROJECT: Repair utilidor pipe. (Current Mission)

REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. This repair project is required to replace deteriorated condensate, steam, and water lines within the utilidor. Additionally, asbestos-containing insulation materials will be replaced with non-hazardous insulation materials.

CURRENT SITUATION: The utilidor was constructed in 1945. Over the years, the condensate line has developed a calcium buildup, constricting the line. In addition, the line has extensive leaks, which allowed corrosion to enter the water and steam lines. Also, the asbestos-containing insulation material has deteriorated and requires replacement with a non-hazardous insulation material

IMPACT IF NOT PROVIDED: Planned expansions to Eielson AFB are dependent on the availability of reliable steam and power from the central heat and power plant. Interruptions caused by utility failures could interrupt the Wing's ability to generate and recover aircraft. Failure to rehabilitate this utilidor could lead to a winter shutdown.

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. All known alternative options were considered during the development of this project. No other option could meet the mission requirements;

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
REPAIR UTILIDOR PIPE	FTQW973012

therefore, no economic analysis was needed or performed. A certificate of exception has been prepared.

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	858	6028	1047				82	172	535	8,722
b. End FY 2001	874	6268	967				82	172	535	8,898

7. INVENTORY DATA ($000)

a. Total Acreage: (13,119)	
b. Inventory Total As Of: (30 SEP 95)	489,506
c. Authorization Not Yet In Inventory:	59,955
d. Authorization Requested In This Program:	16,600
e. Authorization Included In Following Program: (FY 1998)	13,500
f. Planned In Next Three Program Years:	22,999
g. Remaining Deficiency:	239,912
h. Grand Total:	842,472

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	ADAL SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	51,000	SF	14,500	JUL 93	NOV 96
871-183	UPGRADE STORM DRAINAGE SYSTEM		LS	2,100	JAN 95	NOV 96
		TOTAL:		16,600		

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

112-211	WIDEN TAXIWAY	14,000	SY	1,500
141-181	AIRCRAFT WEATHER SHELTERS PHII	6	EA	12,000
		TOTAL:		13,500

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

121-111	POL OPERATIONS/VEHICLE PARKING	5,200	SF	2,100
121-122	REPLACE HYDRANT FUELING SYSTEM PHASE II		LS	20,899

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	ADAL SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96P	141-753	FXSB953022	14,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADAL SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FACILITY	LS			10,190
ADDITION	SF	51,000	190	(9,690)
ALTERATION	LS			(500)
SUPPORTING FACILITIES				2,780
UTILITIES	LS			(1,430)
PAVEMENTS	LS			(800)
SITE IMPROVEMENTS	LS			(550)
SUBTOTAL				12,970
CONTINGENCY (5%)				649
TOTAL CONTRACT COST				13,619
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				885
TOTAL REQUEST				14,504
TOTAL REQUEST (ROUNDED)				14,500

10. Description of Proposed Construction: Ops Addn: Reinforced concrete foundation/floor slab, insulated walls, structural frame and roof system. Planning areas, briefing and administrative areas, plus vault. Hgr Addn: includes foundation, structural, and roofing system to extend existing hanger. Includes filtered power, grounding, communications, and support. Alter existing hangar to meet seismic and fire protection requirements.

11. REQUIREMENT: 86,663 SF ADEQUATE: 34,137 SF SUBSTANDARD: 62,134 SF
PROJECT: Add to and alter squadron operations/aircraft maintenance unit (Sq Ops/AMU). (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A facility is required to support C-130 airlift operations and maintenance under the Objective Wing concept. A consolidated facility is necessary to match reorganization action following recent manpower and funding reductions, plus correct an inefficient situation caused by dispersed locations. 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 also support collocated aircraft maintenance and operations activities.
CURRENT SITUATION: The C-130 airlift squadron recently joined with the fighter wing. The squadron is physically located in five geographically separate locations spread over a driving distance of six miles. Under the Objective Wing concept, the airlift squadron must join aircraft operations and maintenance under a single squadron commander. This will give the commander control of all assets needed to accomplish the mission, while lowering operating costs during peacetime. In wartime, this organization is more efficient and effective at sortie generation. But with current

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
ADAL SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	FXSB953022

facility constraints, the squadron commander maintains two separate offices and his functions are spread out. It is highly desirable to have operation/maintenance functions together, with maintainers working side by side with their operations counterparts. 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 would eliminate this situation. Also, the pilots, navigators, engineers, and loadmasters are currently housed day to day 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 in five facilities throughout the base, command is difficult and none of the benefits of an Objective Wing organization can be realized.

IMPACT IF NOT PROVIDED: The dispersion of operations and maintenance organizations, which support 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 an Objective 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, 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	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	2,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE STORM DRAINAGE SYSTEM	LS			1,774
EXCAVATION AND BACKFILL	CY	30,000	10	(300)
24" REINFORCED CONCRETE PIPE	LF	10,000	30	(300)
MANHOLES	EA	20	2,100	(42)
CATCH BASINS	EA	20	2,100	(42)
OIL/WATER SEPARATORS	EA	4	10,000	(40)
PAVEMENT	SY	2,500	60	(150)
SOIL REMEDIATION	LS			(900)
SUBTOTAL				1,774
CONTINGENCY (10%)				177
TOTAL CONTRACT COST				1,951
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				127
TOTAL REQUEST				2,078
TOTAL REQUEST (ROUNDED)				2,100

10. Description of Proposed Construction: Excavate, install pipe and backfill. Install manholes, catch basins, and oil/water separators. Project includes environmental clean up, replacement of pavement and all necessary support.

11. REQUIREMENT: As required.
PROJECT: Upgrade storm drainage system. (Current Mission)
REQUIREMENT: This is a Level I environmental compliance project. 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 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. Dry wells are unacceptable. Existing contamination must be cleaned up. 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 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

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

and potential fines up to $25,000 per day and could create 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 PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
KING SALMON AIRPORT, ALASKA	PACIFIC AIR FORCES	1.85

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	10	264	20							294
b. End FY 2001	11	266	17							294

7. INVENTORY DATA ($000)

a. Total Acreage: (802)	
b. Inventory Total As Of: (30 SEP 95)	47,160
c. Authorization Not Yet In Inventory:	6,400
d. Authorization Requested In This Program:	900
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	8,400
g. Remaining Deficiency:	0
h. Grand Total:	62,860

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
911-146	LAND ACQUISITION	65 AC	900		
		TOTAL:	900		

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

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

214-426	VEHICLE OPS HEATED PARKING	27,770 SF	8,400

10. Mission or Major Functions: A support site used for forward-deployed air defense alert fighters--currently in standby status.

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 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	831	4813	1440				10	40	400	7,534
b. End FY 2001	875	4987	1278				10	40	400	7,590

7. INVENTORY DATA ($000)

a. Total Acreage: (10,615)	
b. Inventory Total As Of: (30 SEP 95)	281,217
c. Authorization Not Yet In Inventory:	13,750
d. Authorization Requested In This Program:	4,500
e. Authorization Included In Following Program: (FY 1998)	3,347
f. Planned In Next Three Program Years:	3,372
g. Remaining Deficiency:	37,485
h. Grand Total:	343,671

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-175	AIRCRAFT MAINTENANCE FACILITY	26,000 SF	4,500		
		TOTAL:	4,500		

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

211-159	CORROSION CONTROL FACILITY	15,400 SF	2,700		
216-642	ADD TO AND ALTER CONVENTIONAL MUNITIONS SHOP	8,100 SF	647		
		TOTAL:	3,347		

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

441-628	SUPPLIES & EQUIP SHED DEPOT	9,000 SF	872		
880-232	FOAM FIRE SYSTEM	136,435 SF	2,500		

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	AIRCRAFT MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.19	211-175	FBNV953008A	4,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AIRCRAFT MAINTENANCE FACILITY	SF	26,000	120	3,120
SUPPORTING FACILITIES				910
UTILITIES	LS			(230)
SITE IMPROVEMENTS	LS			(150)
PAVEMENTS	LS			(250)
RAMP LIGHTING 150' POLE	EA	2	140,000	(280)
SUBTOTAL				4,030
CONTINGENCY (5%)				202
TOTAL CONTRACT COST				4,232
SUPERVISION, INSPECTION AND OVERHEAD (6%)				254
TOTAL REQUEST				4,486
TOTAL REQUEST (ROUNDED)				4,500

10. Description of Proposed Construction: Pre-engineered metal building with reinforced concrete foundation, concrete floor slab on prepared grade, all utilities, HVAC, fire detection and protection, and lighting systems. Includes electrically operated hangar doors, POL vehicle parking,two poles (150 ft high) with ramp lights, aircraft tie downs, grounding points, and other necessary support.
Air Conditioning: 25 Tons.

11. REQUIREMENT: 78,000 SF ADEQUATE: 44,653 SF SUBSTANDARD: 0
PROJECT: Construct an aircraft maintenance facility. (New Mission)
REQUIREMENT: A facility is required to provide space for aircraft maintenance, repair and inspection on EC-130 aircraft. Functional area requirements include equipment storage, tool cribs, lockers and administrative support space. A parking area is also required for petroleum, oils, and lubrication (POL) vehicles.
CURRENT SITUATION: There are no hangar facilities available to support beddown of the new EC-130 squadron. Temporary workaround procedures are required to accommodate the new squadron since it began receiving aircraft in 1994. The existing POL vehicle parking area must be relocated off the existing aircraft parking apron in order to make space available for parking the new EC-130 aircraft.
IMPACT IF NOT PROVIDED: The new squadron will not have an adequate facility available to support beddown of the new mission EC-130 aircraft. Squadron and maintenance functions will be forced to continue conducting operations in an inefficient manner that requires adapting to temporary working conditions, shuffling and crowding of parked aircraft, and performing operations without adequate facilities.
ADDITIONAL: There is no criteria/scope specified in Part II of Military

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
AIRCRAFT MAINTENANCE FACILITY	FBNV953008A

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, new construction, revovation) 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 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	665	3675	642				1	17	50	5,050
b. End FY 2001	704	3601	532				1	17	50	4,905

7. INVENTORY DATA ($000)

a. Total Acreage: (7,210)	
b. Inventory Total As Of: (30 SEP 95)	191,681
c. Authorization Not Yet In Inventory:	8,050
d. Authorization Requested In This Program:	16,400
e. Authorization Included In Following Program: (FY 1998)	6,840
f. Planned In Next Three Program Years:	1,780
g. Remaining Deficiency:	15,000
h. Grand Total:	239,751

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	94,000	SF	12,800		
149-962	CONTROL TOWER		LS	2,400		
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES		LS	1,200		
		TOTAL:		16,400		

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

130-841	SECURITY POLICE CANINE KENNEL		LS	440
740-674	ADD TO AND ALTER PHYSICAL FITNESS CENTER	54,000	SF	6,400
		TOTAL:		6,840

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

214-000	VEHICLE REFUELING SHOP	4,200	SF	860
843-314	FIRE PROTECTION WATER MAINS		LS	920

10. Mission or Major Functions: An airlift wing with four C-130 squadrons, one of which conducts 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 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.72.31	141-753	NKAK963004A	12,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-130 SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT FACILITIES	SF	94,000		9,197
SQUADRON OPERATIONS FACILITIES	SF	45,400	95	(4,313)
AIRCRAFT MAINTENANCE UNITS	SF	48,600	95	(4,617)
PREWIRED WORK STATIONS	EA	89	3,000	(267)
SUPPORTING FACILITIES		2,800	300	2,270
UTILITIES/SITE-IMPROVEMENTS	LS			(1,365)
DEMOLITION	SF	56,000	7	(390)
SEISMIC/PASSIVE SOLAR	LS			(250)
INTERIM FACILITY	LS			(265)
SUBTOTAL				11,467
CONTINGENCY (5%)				573
TOTAL CONTRACT COST				12,040
SUPERVISION, INSPECTION AND OVERHEAD (6%)				722
TOTAL REQUEST				12,762
TOTAL REQUEST (ROUNDED)				12,800

10. Description of Proposed Construction: Construct two C-130 squadron operations/AMU facilities to include concrete foundation, masonry walls, structural steel frame, sloping roof system, fire protection system, utilities and necessary support. Also includes demolition of nine substandard facilities.
Air Conditioning: 300 Tons.

11. REQUIREMENT: 245,298 SF ADEQUATE: 7,368 SF SUBSTANDARD: 92,191 SF
PROJECT: Construct two squadron operations/aircraft maintenance unit facilities (Sq Ops/AMU). (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. It replaces the existing undersized and separated squadron operations and AMU facilities with a functional and adequately sized structure to support flyers and maintainers for C-130 aircraft. Space is required for operations and AMU management support, briefings, flight planning standardization/evaluation, training and testing, locker rooms, flying/ground safety, tool rooms, bench stock, mobility office, scheduling, and technical order library.
CURRENT SITUATION: Interim facilities are currently used to support operational and maintenance requirements and are grossly inadequate in size. The operations and maintenance personnel from each squadron work as one team and operate out of two undersized buildings. In order to sustain their operational capabilities, airlift squadrons must operate from adequate and organized facilities. Existing facilities are crowded and inefficient. Inefficiencies include lack of space for planning, briefing, administration, storage and issue of parts, flying clothing and equipment. Nine substandard facilities will be demolished, and four leased facilities

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

will be removed upon completion of this project.
IMPACT IF NOT PROVIDED: Operations, maintenance, and support personnel will remain in separated, substandard, and undersized buildings, and will never develop the cohesiveness necessary to become an efficient and effective organization. The physical separation will continue to hamper lines of communication and authority 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". 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	4. PROJECT TITLE
LITTLE ROCK AIR FORCE BASE, ARKANSAS	CONTROL TOWER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.51.14	149-962	NKAK963003	2,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONTROL TOWER	LS			1,767
CONTROL TOWER	EA	1	667,000	(1,667)
ELEVATOR	EA	1	100,000	(100)
SUPPORTING FACILITIES				380
UTILITIES	LS			(80)
SITE DEVELOPMENT	LS			(55)
PAVEMENTS	LS			(55)
SPECIAL FOUNDATION	LS			(90)
AIRFIELD WIRING	LS			(90)
DEMOLITION	EA	1	10,000	(10)
SUBTOTAL				2,147
CONTINGENCY (5%)				107
TOTAL CONTRACT COST				2,254
SUPERVISION, INSPECTION AND OVERHEAD (6%)				135
TOTAL REQUEST				2,389
TOTAL REQUEST (ROUNDED)				2,400

10. Description of Proposed Construction: Reinforced concrete footings, special foundations, floor slab, supporting superstructure, control tower cab, operations and training areas. Facility includes all site work, utilities, mechanical, electrical, fire protection, backup power systems and an elevator. Existing tower and building on construction site will be demolished.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 1 EA ADEQUATE: 0 SUBSTANDARD: 1 EA
PROJECT: Construct control tower. (Current Mission)
REQUIREMENT: This is a Level I Commanders' Facility Assessment requirement. Construct a 110 ft high air traffic control tower with a 540 square foot cab to accommodate up to 11 air traffic control personnel, air traffic control equipment, crew briefings, operations and training functions.
CURRENT SITUATION: The existing control tower was constructed in 1955. The tower's cab, which is only 225 square feet, was configured to accommodate three controllers and the standard complement of 1950's vintage equipment. Since then, the base's mission and characteristics of aircraft supported have changed. As a result, more air traffic controllers and equipment are needed than in 1955 to cover the current air operation. Further, changes in airport configuration, air traffic patterns and visual obstructions to controllers make the proposed tower site more effective than the existing site. Air traffic control operations at Little Rock AFB number 160,000 landings and takeoffs annually. Little Rock AFB is home base for five C-130 squadrons and an ANG Airlift Group (87 aircraft total). Upon completion of this project, the existing tower will be demolished.

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
CONTROL TOWER	NKAK963003

IMPACT IF NOT PROVIDED: The base will continue using a substandard and outdated control tower facility. Overcrowded cab conditions will remain a serious problem that limits air traffic controller mobility, prevents functional and efficient operational procedures, and degrades controller communications with pilots. These conditions, coupled with the additional effort required to safely control multiple C-130 aircraft, create conditions that jeopardize pilot safety and can cause loss of personnel and aircraft.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide" or 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 for accomplishing this project (status quo, modify the existing tower and new construction) was done. It indicates new construction is the only option that will meet operational requirements. Status quo and tower modification will not eliminate all operational deficiencies. 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	4. PROJECT TITLE
LITTLE ROCK AIR FORCE BASE, ARKANSAS	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	831-155	NKAK973007	1,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS			900
SUPPORTING FACILITIES				170
UTILITIES	LS			(100)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(20)
SUBTOTAL				1,070
CONTINGENCY (5%)				54
TOTAL CONTRACT COST				1,124
SUPERVISION, INSPECTION AND OVERHEAD (6%)				67
TOTAL REQUEST				1,191
TOTAL REQUEST (ROUNDED)				1,200

10. Description of Proposed Construction: Construct industrial wastewater pretreatment facilities to include package plants, oil/water separators, point source treatment/recovery/removal and required supporting facilities.

11. REQUIREMENT: As required.

PROJECT: Construct industrial wastewater pretreatment facilities. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Little Rock is subject to the pretreatment standards of the Clean Water Act administered through the Industrial Wastewater Discharge Permit issued by the City of Jacksonville Wastewater Utility. Amendments to the CWA as well as the anti-back sliding provision of the National Pollution Discharge Elimination System (NPDES) make it increasingly difficult for Little Rock AFB to maintain full compliance with its Industrial Wastewater Discharge Permit. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative. The project is programmed to pretreat industrial effluent from approximately 11 facilities.

CURRENT SITUATION: Little Rock AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into the Jacksonville sanitary sewer which ultimately discharges into the Arkansas River. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value

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
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	NKAK973007

for heavy metal and toxic organic removal. On-going pollution prevention and product substitution initiatives are decreasing the total volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facilities.

IMPACT IF NOT PROVIDED: Enforcement actions will increase as it becomes more difficult for Little Rock AFB to maintain compliance with its Industrial Wastewater Discharge Permit. Non-compliance with the Industrial Wastewater Discharge Permit will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day.

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 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	392	2750	435				1	18	137	3,733
b. End FY 2001	401	2927	567				1	18	137	4,051

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:	13,500
e. Authorization Included In Following Program: (FY 1998)	13,150
f. Planned In Next Three Program Years:	5,900
g. Remaining Deficiency:	26,814
h. Grand Total:	276,629

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-454	DEPLOYABLE GROUND STATION SUPPORT FACILITY	53,700 SF	7,000		
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS	1,500		
911-146	LANDFILL CLOSURE	27 AC	5,000		
		TOTAL:	13,500		

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

214-425	VEHICLE OPERATIONS AND MAINTENANCE	38,000 SF	5,100		
610-128	ADD TO MILITARY PERSONNEL SUPPORT CENTER	15,000 SF	3,050		
831-155	INDUSTRIAL WASTEWATER TREATMENT FACILITIES	LS	5,000		
		TOTAL:	13,150		

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

130-142	FIRE/CRASH RESCUE STATION	5,000 SF	1,200		
610-249	WING HEADQUARTERS	17,000 SF	4,700		

10. Mission or Major Functions: A flying 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); and an Air Force Space Command missile warning squadron which operates one of the Phased Array Warning System (Pave PAWS) radars.

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	7,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CARS DEPLOYABLE GROUND STATION SUPPORT FACILITY	LS			4,998
SPECIAL OPERATIONS	SF	21,100	98	(2,068)
SPECIAL OPERATIONS - SCIF	SF	18,000	140	(2,520)
STORAGE	SF	10,000	41	(410)
SUPPORTING FACILITIES				1,285
UTILITIES	LS			(395)
PAVEMENTS	LS			(370)
SITE IMPROVEMENTS	LS			(520)
SUBTOTAL				6,283
CONTINGENCY (5%)				314
TOTAL CONTRACT COST				6,597
SUPERVISION, INSPECTION AND OVERHEAD (6%)				396
TOTAL REQUEST				6,993
TOTAL REQUEST (ROUNDED)				7,000

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab with masonry walls, structural steel frame and metal gable roof. Includes parking, site improvements, and utilities for support center and technical pad to include fencing, security lighting, conduit for alarms and closed circuit TV (CCTV) cameras, and a hardened entry control point (ECP).
Air Conditioning: 150 Tons.

11. REQUIREMENT: As required.
PROJECT: Construct a Contingency Airborne Reconnaissance System (CARS) Deployable Ground Station (DGS) support facility. (New Mission)
REQUIREMENT: A facility of adequate size and configuration is required to accommodate organizations and functions that provide support for the new DGS system being established at Beale AFB. A 250'x 160' paved equipment pad, covered with a 100'x 190' weatherproof roof is also required. Security requirements are needed which include boundary security lighting, priority B fencing, conduit to support CCTV cameras and alarm systems and a hardened entry control point. A back-up generator to support lighting/alarm systems is also needed.
CURRENT SITUATION: The DGS at Beale AFB is inadequately housed in an interim facility that does not meet operational and security requirements. The facility is a 1970 era bomber alert crew facility of approximately 17,000 SF that does not have the required SCIF area, sufficient operational space, or equipment pad. There are no other facilities at the installation that can adequately meet the needs of this new mission requirement. A modular building will be leased and used as an additional interim facility until permanent facilities included in this requirement are constructed.

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

IMPACT IF NOT PROVIDED: CARS DGS is the only system in existence, or currently programmed, that will be capable of collection, processing, and exploitation of 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 operations functions 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. 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. This requirement is for the second of two CARS DGS to be bedded down in CONUS and established to support our national objective to conduct operations in two major regional conflicts simultaneously. Langley AFB is the east coast location for the first CARS DGS and Beale AFB is the west coast location for the second.

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	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	831-155	BAEY972500	1,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS			1,100
SUPPORTING FACILITIES				240
UTILITIES	LS			(150)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(40)
SUBTOTAL				1,340
CONTINGENCY (5%)				67
TOTAL CONTRACT COST				1,407
SUPERVISION, INSPECTION AND OVERHEAD (6%)				84
TOTAL REQUEST				1,491
TOTAL REQUEST (ROUNDED)				1,500

10. Description of Proposed Construction: Construct industrial wastewater pretreatment facilities to include package plants, oil/water separators, point source treatment/recovery/removal and required supporting facilities.

11. REQUIREMENT: As required.

PROJECT: Construct industrial wastewater pretreatment facilities. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Beale AFB is subject to the pretreatment standards of the Clean Water Act administered through the National Pollutant Discharge Elimination System (NPDES) Permit issued by the California Regional Water Quality Control Board (CRWQCB), Central Valley Region. Amendments to the CWA as well as the anti-back sliding provision of NPDES make it increasingly difficult for Beale AFB to maintain full compliance with its Industrial User Permit. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative. The project is programmed to pretreat industrial effluent from approximately 13 facilities.

CURRENT SITUATION: Beale AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into Hutchinson Creek, a tributary to the Bear River. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic removal. On-going pollution prevention and product substitution initiatives are

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
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	BAEY972500

decreasing the total volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facility.

IMPACT IF NOT PROVIDED: Enforcement actions will increase as it becomes more difficult for Beale AFB to maintain compliance with its NPDES Permit. Non-compliance with the NPDES Permit will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day.

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	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	5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
LANDFILL CLOSURE	AC	56	58,660	3,285
SUPPORTING FACILITIES				1,000
REVEGETATION	LS			(135)
GAS MONITORING AND CONTROL	LS			(90)
GROUNDWATER MONITORING	LS			(80)
DRAINAGE	LS			(50)
SECURITY AND FENCE	LS			(155)
OTHER SUPPORT	LS			(490)
SUBTOTAL				4,285
CONTINGENCY (10%)				429
TOTAL CONTRACT COST				4,714
SUPERVISION, INSPECTION AND OVERHEAD (6%)				283
TOTAL REQUEST				4,997
TOTAL REQUEST (ROUNDED)				5,000

10. Description of Proposed Construction: Plan and execute closure of Landfill No 2.

11. REQUIREMENT: As required.
PROJECT: Plan and execute the closure of Landfill No 2. (Current Mission)
REQUIREMENT: This is a Level I environmental compliance requirement. Landfill 3 must be closed in accordance with California Code of Regulations (CCR) Title 23, Division 3, Chapter 15 and Title 14, Division 7, Chapters 3 and 5. In addition, Draft Waste Discharge Requirements (WDR) to be adopted by the California Regional Water Quality Control Board includes specifications for closure. CCR Title 14, Chapter 3, Article 7.8 Section 17763 requires the implementation of the Final Closure Plan for the named landfill within 30 days. Section 17773 CCR gives construction requirements for the design of the final cover.
CURRENT SITUATION: Existing Landfill Nos 1, 2, and 3 require formal closure. The California Regional Water Quality Control Board, the Integrated Waste Management Board, and the Yuba County Environmental Health Department have indicated that we can proceed in reverse order: closure of Landfill No 3 in 1996; Landfill No 2 in 1997; and Landfill No 1 in 1998. Landfill No 3 operated from some time in 1980 until Oct 1993. Landfill No 2 operated from approximately 1960 until some time in 1980. Landfill No 1 operated from approximately 1940 until 1960. Beale AFB is currently using the Yuba-Sutter Disposal, Inc Landfill for solid waste disposal. All three landfills on Beale AFB are in violation of the "Record of Disposal Site Inspection" for submittal of closure plans. These landfills are out of compliance with California State Regulations and draft WDR to be adopted by California Regional Water Quality Control Board.

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

IMPACT IF NOT PROVIDED: Severe fines can be applied by the state of California, up to $25,000 per day can be applied by the California Regional Water Quality Board if the base does not bring the landfill through to closure. Fines and lawsuits are imminent if the government does 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 options were considered. 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 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	671	3754	3493				27	51	862	8,858
b. End FY 2001	650	3384	3264				27	51	862	8,238

7. INVENTORY DATA ($000)

a. Total Acreage: (301,928)	
b. Inventory Total As Of: (30 SEP 95)	711,233
c. Authorization Not Yet In Inventory:	44,650
d. Authorization Requested In This Program:	21,700
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	102,300
h. Grand Total:	879,883

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	234,000 SF	8,000	MAR 93	APR 95
311-115	F-22 ALTER AIRCRAFT MAINTENANCE FACILITY	42,700 SF	4,400		
317-932	ADD TO AND ALTER SIMULATOR TEST CONTROL FACILITY	LS	4,900		
821-115	CONVERT BOILERS	24 EA	4,400		
		TOTAL:	21,700		

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 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	RENOVATE AIRCRAFT MAINTENANCE FACILITY

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

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
RENOVATE AIRCRAFT MAINTENANCE FACILITY	SF	234,000	29	6,786
SUPPORTING FACILITIES				150
UTILITIES	LS			(80)
SITE IMPROVEMENTS	LS			(20)
ASBESTOS REMOVAL	LS			(50)
SUBTOTAL				6,936
CONTINGENCY (10%)				694
TOTAL CONTRACT COST				7,630
SUPERVISION, INSPECTION AND OVERHEAD (6%)				458
TOTAL REQUEST				8,088
TOTAL REQUEST (ROUNDED)				8,000

10. Description of Proposed Construction: Repair or replace water, heating, ventilation, and air conditioning systems 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 Tons.

11. REQUIREMENT: 1,142,800 SF ADEQUATE: 191,270 SF SUBSTANDARD: 951,500 SF

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 Pilots School and the National Aeronautics and Space Administration.

CURRENT SITUATION: This aircraft maintenance facility, originally built in the 1950's, has deteriorated to a point where major renovation is required. Over 4,000 man-hours in facility maintenance were expended in 1993 to keep this facility operational; this effort will increase as the building systems get even older. The combination of aging electrical and mechanical systems, and the nonavailability of replacement parts causes frequent systems shutdowns, resulting in aircraft maintenance schedule

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

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: 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. 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	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	4,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-22 ALTER AIRCRAFT MAINTENANCE FACILITY	SF	42,700	72	3,074
SUPPORTING FACILITIES				700
SECURITY IMPROVEMENTS	SF	2,500	120	(300)
SITE IMPROVEMENTS	LS			(300)
PAVEMENTS	LS			(50)
UTILITIES	LS			(50)
SUBTOTAL				3,774
CONTINGENCY (10%)				377
TOTAL CONTRACT COST				4,151
SUPERVISION, INSPECTION AND OVERHEAD (6%)				249
TOTAL REQUEST				4,400
TOTAL REQUEST (ROUNDED)				4,400

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 F-22 aircraft. Provide entry control and associated security requirements. Includes upgrades to HVAC, utilities and all necessary support.
Air Conditioning: 25 Tons.

11. REQUIREMENT: 203,200 SF ADEQUATE: 0 SUBSTANDARD: 146,750 SF
PROJECT: Alter an aircraft maintenance facility for the F-22. (New Mission)
REQUIREMENT: The Air Force Flight Test Center requires secure, modern maintenance, testing, office and industrial facilities to support testing during the engineering and manufacturing development (EMD) phase of F-22 Advanced Tactical Fighter aircraft. Access to 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: Without secure and adequate facilities, F-22 test activities will have to be downscoped, which will result in test program slippage and delay the introduction of this advanced fighter aircraft into the Air Force inventory.

ADDITIONAL: There is no criteria/scope for this project in either 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.

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	4,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER ANECHOIC CHAMBER	LS			2,100
ALTERATION	LS			(1,950)
ADDITION	SF	750	200	(150)
SUPPORTING FACILITIES				2,120
RF SHIELDING	LS			(1,250)
HOIST SUPPORT	LS			(250)
UTILITIES	LS			(480)
COMMUNICATIONS SUPPORT	LS			(140)
SUBTOTAL				4,220
CONTINGENCY (10%)				422
TOTAL CONTRACT COST				4,642
SUPERVISION, INSPECTION AND OVERHEAD (6%)				279
TOTAL REQUEST				4,921
TOTAL REQUEST (ROUNDED)				4,900

10. Description of Proposed Construction: Install 40 ton hoist and operator cab suspended from anechoic chamber ceiling, including radio frequency interference (RFI) 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 Tons.

11. REQUIREMENT: 214,250 LS ADEQUATE: 162,300 LS
SUBSTANDARD: 16,200 LS
PROJECT: Add to and alter an anechoic chamber. (New Mission)
REQUIREMENT: Additional specialized space is required to test electronic combat and integrated avionics systems for advanced aircraft such as the B-2, F-22, C-17 and F-117. Components must first be tested in clean rooms with radio frequency interference (RFI) and electromagnetic pulse (EMP) shielding and then be transferred to the anechoic chamber for integrated testing on full scale aircraft. Shielded rooms must be able to test classified threat generators, target simulators and other sophisticated electronic test equipment used to simulate hostile enemy airspace without compromising data collection or security. A hoist is required to move heavy components directly from test aircraft to shielded rooms adjacent to the anechoic chamber.
CURRENT SITUATION: Specialized rooms and support space for the anechoic facility are required to test new weapon system components prior to integrated testing on test aircraft. Existing rooms in an adjacent facility fragment the workforce and lack required security, RFI and EMP shielding. After weapon system components are individually tested in individual specialized rooms in the adjacent facility, they are then

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

transferred to the anechoic chamber for integrated testing on full-scale aircraft. Transferring the components to the anechoic chamber requires additional security measures and compounds scheduling conflicts. Electronic test conditions in both the specialized rooms and the anechoic chamber cannot be "tailored" for each weapon component because there are more components being tested at any one time than there are specialized rooms. Ferrying components back and forth from the adjacent facility to the anechoic chamber can be extremely time consuming since components must compete for space for initial set-up and subsequent modifications. The non-availability of space resulting from this competition delays the fielding of new weapon systems. The only large hoist in the anechoic chamber is located above the center of the chamber where most targets are located for radar image tests. However, this location does not provide sufficient separation from the pulse emitter to perform far-field tests.
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, thie 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 certify of exception has been prepared.

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	4,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONVERT BOILERS	EA	24		2,400
CONVERT BURNERS FROM OIL TO GAS	EA	24	20,000	(480)
INSTALL GAS TANKS/LINES/CONTROL	EA	24	80,000	(1,920)
SUPPORTING FACILITIES				1,360
UTILITIES	LS			(300)
SITE IMPROVEMENTS	LS			(100)
SOIL REMEDIATION	LS			(600)
REMOVE OIL TANKS/LINES	EA	24	15,000	(360)
SUBTOTAL				3,760
CONTINGENCY (10%)				376
TOTAL CONTRACT COST				4,136
SUPERVISION, INSPECTION AND OVERHEAD (6%)				248
TOTAL REQUEST				4,384
TOTAL REQUEST (ROUNDED)				4,400

10. Description of Proposed Construction: Retrofit boilers to comply with Clean Air Act. Convert burners in large boilers from oil to gas fired with related controls and service lines. Remove existing oil tanks and fuel lines. Includes site remediation 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 being promulgated by Kern County Air Pollution Control District Rule S-9-P. This rule was published in draft in July 1993, will be adopted in July 1994, and requires compliance by January 1997. The rule requires oil fired boilers to be converted to gas in order to comply with stricter emission standards.

CURRENT SITUATION: The largest 24 boilers at Edwards AFB burn oil and produce excess nitrogen oxides as a combustion product. Under the CAA, these nitrogen oxides emissions are virtually prohibited. In order to meet Kern County emission requirements, the boilers must be converted to gas fired units. The requirement for this project was validated by the Cost of Compliance Study for 1990 Clean Air Act Ammendments conducted at Edwards AFB in 1992.

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

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

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 Requirement". 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 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	1176	6269	1985				21	165	117	9,733
b. End FY 2001	1257	6870	1979				21	165	117	10,409

7. INVENTORY DATA ($000)

a. Total Acreage: (6,922)	
b. Inventory Total As Of: (30 SEP 95)	455,159
c. Authorization Not Yet In Inventory:	46,700
d. Authorization Requested In This Program:	6,600
e. Authorization Included In Following Program: (FY 1998)	20,000
f. Planned In Next Three Program Years:	2,410
g. Remaining Deficiency:	113,800
h. Grand Total:	644,669

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	DORMITORY	98 PN	6,600		
		TOTAL:	6,600		

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

141-753	FLIGHT OPERATIONS COMPLEX	45,600 SF	9,500
721-312	DORMITORY	252 PN	10,500
		TOTAL:	20,000

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

218-868	PRECISION MEASURING EQUIP LAB	8,500 SF	1,800
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; the west coast Air Mobility Operations Center (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	6,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (98 PN)				4,246
DORMITORY	SF	34,800	120	(4,176)
AUTOMATIC SPRINKLER PROTECTION	SF	34,800	2	(70)
SUPPORTING FACILITIES				1,640
UTILITIES	LS			(380)
PAVEMENTS	LS			(350)
SITE IMPROVEMENTS	LS			(230)
DEMOLITION/ASBESTOS REMOVAL/DISPOSAL	SF	25,200	27	(680)
SUBTOTAL				5,886
CONTINGENCY (5%)				294
TOTAL CONTRACT COST				6,180
SUPERVISION, INSPECTION AND OVERHEAD (6%)				371
TOTAL REQUEST				6,551
TOTAL REQUEST (ROUNDED)				6,600

10. Description of Proposed Construction: A three-story structure with reinforced concrete foundation and floor slabs, masonry walls, and roof. Includes room-bath-room modules, laundries, storage and lounge areas and all necessary support. Includes demolition of one dormitory.
Air Conditioning: 75 Tons. Grade Mix: 98 E1-E4.

11. REQUIREMENT: As required.
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. Estimated intended utilization is 98 personnel: 98 E1-E4, with a maximum utilization of 98 personnel.
CURRENT SITUATION: There are currently not enough adequate dormitories to meet the billeting requirements of unaccompanied enlisted personnel at Travis AFB. Substandard facilities to be replaced do not provide semi-private baths, adequate control of heating and air conditioning, sufficient noise attenuation or necessary amenities to adequately house enlisted personnel. One substandard facility totalling 25,200 square feet will be demolished upon completion of this project.
IMPACT IF NOT PROVIDED: Adequate living quarters will continue to be unavailable resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel.
ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. An economic analysis has

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

been prepared comparing the alternatives of new construction, revitalization, sending personnel off base paying BAQ/VHA 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. Fire protection systems for this project meet new standards established in MIL-HNBK 1008B, Fire Protection for Facilities, published 15 January 1994. Cost for fire protection is shown separately since this new standard is not yet reflected in the OSD approved unit cost factor for dormitories.

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			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 95	624	2419	1242							4,285
b. End FY 2001	608	2219	1157							3,984

7. INVENTORY DATA ($000)

a. Total Acreage: (98,830)	
b. Inventory Total As Of: (30 SEP 95)	1,118,383
c. Authorization Not Yet In Inventory:	32,528
d. Authorization Requested In This Program:	1,010
e. Authorization Included In Following Program: (FY 1998)	27,200
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	65,473
h. Grand Total:	1,244,594

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-476	COMBAT ARMS FACILITY	5,000 SF	1,010		
		TOTAL:	1,010		

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

171-621	TECHNICAL TRAINING CLASSROOM	125,000 SF	24,000		
411-139	HAZARDOUS MATERIAL STORAGE FACILITY	25,000 SF	1,200		
833-354	REGIONAL COMPOSTING FACILITY	LS	2,000		
		TOTAL:	27,200		

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

10. Mission or Major Functions: Headquarters Fourteenth Air Force; a space wing with UH-1 aircraft; 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	COMBAT ARMS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.59.96	171-476	XUMU933002	1,010

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMBAT ARMS FACILITY	SF	5,000		379
COMBAT ARMS TRAINING & MAINTENANCE	SF	4,200	78	(328)
RANGE SUPPLIES & EQUIPMENT STORAGE	SF	300	43	(13)
RANGE TARGET STORAGE & REPAIR	SF	500	76	(38)
SUPPORTING FACILITIES				520
SITE IMPROVEMENTS	LS			(155)
PAVEMENTS	SY	2,700	17	(45)
ACCESS ROAD	LF	3,500	70	(245)
UTILITIES	LS			(55)
DEMOLITION	SF	2,250	9	(20)
SUBTOTAL				899
CONTINGENCY (5%)				45
TOTAL CONTRACT COST				944
SUPERVISION, INSPECTION AND OVERHEAD (6%)				57
TOTAL REQUEST				1,001
TOTAL REQUEST (ROUNDED)				1,010

10. Description of Proposed Construction: Reinforced concrete slab foundation, concrete masonry unit walls, steel frame and roof, fire protection system, new access road, utilities and other necessary support. Project includes classroom, administrative area, range supply storage, secure weapons storage area, maintenance area, vehicle parking, and demolition of the old facility.

11. REQUIREMENT: 5,000 SF ADEQUATE: 0 SUBSTANDARD: 3,705 SF

PROJECT: Construct a combat arms facility. (Current Mission)

REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. An adequately sized and configured combat arms training and maintenance (CATM) facility collocated with the base small arms and heavy weapons ranges to provide required training, maintenance, and proficiency firing for base personnel.

CURRENT SITUATION: The CATM operation is located 11.5 miles from the firing range in a facility shared with other base agencies. It was originally designed as a satellite tracking facility and is totally inappropriate for use as administration space; and for classroom use it is poorly configured and needs renovation. The heating and air conditioning system is improperly sized, inefficient, and not suitable for a classroom. Annually, over 4,000 people are given training at the CATM on a wide variety of small arms (pistols, rifles, and grenade launchers). Without secure storage at the CATM facility weapons must be transported under armed guard from the security police operations facility to the classroom, and then, at the completion of classroom training, to the range. Facilities at the firing range are unsuitable for classroom training, and cannot be rehabilitated. One facility is a WWII era building, which is an open, utilitarian type structure with exposed studs and rafters. The

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
COMBAT ARMS FACILITY	XUMU933002

other is a wood shed which has gone well beyond its useful life. Today, the access road leading from the main road to the training area crosses the 40mm grenade impact range and cuts through the M60 firing range. This presents a severe safety hazard and requires careful scheduling of the various ranges, limiting their use. This project includes the demolition of 2,250 square feet of substandard facilities.

IMPACT IF NOT PROVIDED: CATM personnel will continue to work in substandard, inefficient, and deteriorated facilities. Small arms weapons will continue to be stored in a geographically separated facility, reducing efficiency of training and creating a dangerous people and weapons transportation problem. Range activities will continue to operate in facilities that have no utilities and lack adequate training capability. All of these factors negatively impact the space and missile mission of the base.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of status quo, renovating existing facilities, and constructing a new consolidated facility. The evaluation of costs and benefits together shows that constructing a consolidated facility is the most economical alternative. 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".

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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	1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 95	91	617	607							1,315
b. End FY 2001	89	611	585							1,285

7. INVENTORY DATA ($000)

a. Total Acreage: (3,245)	
b. Inventory Total As Of: (30 SEP 95)	93,042
c. Authorization Not Yet In Inventory:	83,550
d. Authorization Requested In This Program:	3,500
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:	191,092

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
442-758	BASE SUPPLY AND EQUIPMENT WAREHOUSE	40,000 SF	3,500		
		TOTAL:	3,500		

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

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

10. Mission or Major Functions: Colorado Air National Guard Headquarters with T-43s and the ANG 140th Tactical Fighter Wing flying a A-7D aircraft. Other units include 1810 Communications Group, 2 Communications Squadron and Det 3, Space Division.

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	SF	40,000	64	2,560
SUPPORTING FACILITIES				575
UTILITIES	LS			(350)
PAVEMENTS	LS			(150)
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)				3,500

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

11. REQUIREMENT: 40,000 SF ADEQUATE: 0 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 no existing warehouse space available at Buckley Air National Guard Base 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: There are no other alternatives which meet mission requirements, therefore, an economic analysis was neither required, nor performed. 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
CHEYENNE MOUNTAIN 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	181	838	148							1,167
b. End FY 2001	166	821	144							1,131

7. INVENTORY DATA ($000)

a. Total Acreage: (519)	
b. Inventory Total As Of: (30 SEP 95)	77,063
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	3,150
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	5,423
h. Grand Total:	85,636

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
124-134	DIESEL FUEL RESERVOIR	500,000 GL	3,150		
		TOTAL:	3,150		

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 support group; a command and control squadron; and the North American Defense Command command post.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	3,150
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
CHEYENNE MOUNTAIN AFB, COLORADO	DIESEL FUEL RESERVOIR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.58.56	124-134	SAXC983003	3,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DIESEL FUEL RESERVOIR				2,600
REPLACE CAVERN WITH NEW AST'S	LS			(2,000)
DECOMMISSION EXISTING ROCK CAVERN	LS			(600)
SUPPORTING FACILITIES				85
SPECIAL SECURITY	LS			(85)
SUBTOTAL				2,685
CONTINGENCY (10%)				269
TOTAL CONTRACT COST				2,954
SUPERVISION, INSPECTION AND OVERHEAD (6%)				177
TOTAL REQUEST				3,131
TOTAL REQUEST (ROUNDED)				3,150

10. Description of Proposed Construction: Replace existing rock cavern fuel storage facility with fuel tanks (tank farm) complete with all necessary fuel transfer systems, piping, and secondary containment. Transfer diesel fuel from existing cavern and decommission existing facility.

11. REQUIREMENT: As required.

PROJECT: Construct a diesel fuel reservoir. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance requirement. Provide a fuel storage system which satisfies mission needs and complies with Environmental Protection Agency (EPA) requirements (40 CFR 280) by December 1998. The Environmental Protection Agency (EPA) has set standards that require all regulated underground storage tanks to have leak detection, corrosion protection, and spill/overflow prevention systems.

CURRENT SITUATION: Diesel fuel is stored in an underground rock cavern reservoir which was created as part of the Cheyenne Mountain project in 1965. When excavation of the cavern was completed, no surface shielding or means of diesel fuel containment was provided between the fuel and the ground, so that this underground storage reservoir has always operated with diesel fuel in direct contact with the granite surface. Should there be any ground shift or seismic activity, the potential exists for a fault to develop, and this could lead to contamination of ground water.

IMPACT IF NOT PROVIDED: There exists an unacceptable risk of ground water contamination. If this project is not accomplished by the established deadline of December 1998, the Air Force will be in violation of environmental regulations, subjecting the government to Notices of Violation, fines and significant adverse publicity.

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

3. INSTALLATION AND LOCATION

CHEYENNE MOUNTAIN AFB, COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
DIESEL FUEL RESERVOIR	SAXC983003

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 performed. A certificate of exception has been prepared.

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	844	1453	418				10	5	21	2,751
b. End FY 2001	713	1669	406				10	5	21	2,824

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:	1,700
e. Authorization Included In Following Program: (FY 1998)	20,070
f. Planned In Next Three Program Years:	1,500
g. Remaining Deficiency:	31,212
h. Grand Total:	280,631

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/SAFETY UPGRADE	9,990 SF	1,700		
		TOTAL:	1,700		

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

610-243	OPERATIONAL SUPPORT FACILITY	LS	17,470
811-147	REPLACE GENERATORS	LS	2,600
		TOTAL:	20,070

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

740-884	CHILD CARE CENTER	3,500 SF	1,500

10. Mission or Major Functions: A space wing; a space group; the Air Force Space Forecast Center; 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

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/SAFETY UPGRADE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.59.96	722-351	GLEN973001	1,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DINING FACILITY/SAFETY UPGRADE	LS			825
SUPPORTING FACILITIES				645
SITE IMPROVEMENTS	LS			(20)
KITCHEN EQUIPMENT	LS			(625)
SUBTOTAL				1,470
CONTINGENCY (10%)				147
TOTAL CONTRACT COST				1,617
SUPERVISION, INSPECTION AND OVERHEAD (6%)				97
TOTAL REQUEST				1,714
TOTAL REQUEST (ROUNDED)				1,700

10. Description of Proposed Construction: Relocate the cooking and the food preparation areas and 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. Alter HVAC ducts and equipment, and the electrical distribution system.
Air Conditioning: 50 Tons.

11. REQUIREMENT: As required.
PROJECT: Alter dining facility and upgrade safety conditions. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. Provide a safe, functional dining facility with greatly increased serving capacity. Reconfigure food preparation, serving and eating areas to improve safety, work and serving efficiency, traffic flow, and serving time.
CURRENT SITUATION: The existing food preparation and serving areas are a safety hazard. Originally designed to serve 150 meals/hour, this facility is now providing 450 meals/hour due to the assignment of additional missions to the base and large 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 (RAC) of 2 II B. Poor layout of the hot line serving area requires servers to transport hot food by cutting across the lines of patrons, causing a 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, and all supplies of incoming food must be

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/SAFETY UPGRADE	GLEN973001

transported downstairs for storage, then back upstairs for preparation. Inadequate storage space necessitates between four and 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. Cash register/check-out configuration causes back-ups which, in turn, 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 services personnel and possibly patrons; and the efficiency of the services personnel will continue to be poor because of the congested, dysfunctional conditions in the food preparation and serving areas. The storage and handling of food will continue to be inadequate and unnecessarily complicated. The quality of service will continue to be at a low level, and will result in longer waits for lunch time meals, increased potential for burn injuries, and decreased personnel productivity in general as the time required for patrons to be served and have lunch increases.

ADDITIONAL: This project meets the criteria/scope specified in Part II of the Military Handbook 1190, "Facilities Planning and Design Guide" and AFM 86-2, "Standard Facility Requirements".

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	1086	1194	1693	5	4282		19	28	62	8,369
b. End FY 2001	998	1033	1923	5	4182		19	28	62	8,250

7. INVENTORY DATA ($000)

a. Total Acreage: (54,147)	
b. Inventory Total As Of: (30 SEP 95)	359,184
c. Authorization Not Yet In Inventory:	49,330
d. Authorization Requested In This Program:	10,470
e. Authorization Included In Following Program: (FY 1998)	26,750
f. Planned In Next Three Program Years:	6,800
g. Remaining Deficiency:	36,490
h. Grand Total:	489,024

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	115,000 SF	10,470	MAY 95	AUG 96
		TOTAL:	10,470		

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

171-853	REPAIR USAF ACADEMY ACADEMIC TRAINING	LS	11,000
171-853	UPGRADE ACADEMIC FACILITY, PHASE II	109,650 SF	11,000
724-433	ADD TO AND ALTER PREP SCHOOL DORMITORIES	45,543 SF	3,450
740-253	FAMILY SERVICE CENTER	8,900 SF	1,300
		TOTAL:	26,750

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

610-284	RENOVATE MAJOR COMMAND HEADQUARTERS	60,000 SF	4,300
740-681	ADD TO AND ALTER CADET SOCIAL CENTER	5,000 SF	2,500

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; 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	10,470

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE ACADEMIC FACILITY	SF	115,000	68	7,820
SUPPORTING FACILITIES				1,160
ASBESTOS REMOVAL	LS			(1,160)
SUBTOTAL				8,980
CONTINGENCY (10%)				898
TOTAL CONTRACT COST				9,878
SUPERVISION, INSPECTION AND OVERHEAD (6%)				593
TOTAL REQUEST				10,471
TOTAL REQUEST (ROUNDED)				10,470

10. Description of Proposed Construction: Upgrade 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: 400 Tons.

11. REQUIREMENT: 951,350 SF ADEQUATE: 295,892 SF
SUBSTANDARD: 655,458 SF
PROJECT: Upgrade academic facility. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. The renovation of the second floor of Fairchild Hall, the Air Force Academy's primary academic facility, is needed. Proper egress elements such as protected stairs, exit doors, routes of egress, handicap refuge areas, emergency lighting, and occupancy separations are required. Protective construction of hazardous materials storage, exitways, utility chases, and smoke barriers are necessary for a safe academic environment. Additional space for academic laboratories and classrooms will be provided by reconfiguring space after functions move into the completed Consolidated Education and Training (CETF) facility, a FY91 MILCON project. This will allow more space for today's computer-driven and technologically-oriented curriculum. Related classrooms and laboratories must be consolidated to improve space use and program efficiency. Additionally, handicap access and adequate environmental systems are required to comply with health, safety, and building codes.
CURRENT SITUATION: The second floor of Fairchild Hall does not meet current life safety, building code, OSHA, EPA, DoD, Air Force, and higher

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

education facilities standards. The facility has received no major upgrades since originally constructed in 1958 to standards in effect at that time, except for an addition in 1968 when the cadet wing increased from 2,500 to 4,400. The 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 environmental systems 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, the laboratories and classrooms will continue to operate in the technology and environment of the 1950s. Combined with the space shortages, this situation will continue to seriously impact the quality of education and training for future Air Force officers. Environmental, safety, and building code discrepancies will continue to restrict laboratory experiments and to jeopardize the safety of the 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.

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 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	0.73

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	1408	6112	3716				32	274	500	12,042
b. End FY 2001	1354	6047	3500				32	274	500	11,707

7. INVENTORY DATA ($000)

a. Total Acreage: (463,117)	
b. Inventory Total As Of: (30 SEP 95)	637,833
c. Authorization Not Yet In Inventory:	11,850
d. Authorization Requested In This Program:	8,500
e. Authorization Included In Following Program: (FY 1998)	3,500
f. Planned In Next Three Program Years:	15,800
g. Remaining Deficiency:	71,800
h. Grand Total:	749,283

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	UPGRADE DORMITORY	271 PN	7,300		
871-183	UPGRADE STORM DRAINAGE SYSTEM	LS	1,200		
		TOTAL:	8,500		

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

211-152	ALTER GENERAL PURPOSE AIRCRAFT MAINTENANCE SHOP	88,000 SF	3,500		
		TOTAL:	3,500		

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

113-321	REPLACE AIRCRAFT PARKING APRON	90,000 SF	8,000		
211-159	ALTER CORROSION CONTROL FACILITY	1 EA	1,900		
219-944	TEST MUNITIONS FACILITY	3,000 SF	500		
315-237	CLASS AIRCRAFT TEST SUPPORT FACILITY	20,000 SF	5,400		

10. Mission or Major Functions: Air Force Development Test Center; a test wing; an air base wing; 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 DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.06	721-312	FTFA963032	7,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE DORMITORY (271 PN)	SF			5,617
UPGRADE DORMITORY	SF	119,500	45	(5,378)
AUTOMATIC SPRINKLER SYSTEM	SY	119,500	2	(239)
SUPPORTING FACILITIES				635
UTILITIES	LS			(460)
SITE IMPROVEMENTS	LS			(50)
ASBESTOS REMOVAL	LS			(125)
SUBTOTAL				6,252
CONTINGENCY (10%)				625
TOTAL CONTRACT COST				6,877
SUPERVISION, INSPECTION AND OVERHEAD (6%)				413
TOTAL REQUEST				7,290
TOTAL REQUEST (ROUNDED)				7,300

10. Description of Proposed Construction: Replace heating, ventilation and air conditioning system; replace wall treatment and carpet; paint dorm rooms; remove asbestos; replace fire alarm system with transceivers; install sloped roof and exterior insulation. Provide necessary support. Air Conditioning: 350 Tons. Grade Mix: 261 E1-E4; 9 E5-E6; 1 E7-E9.

11. REQUIREMENT: As required.

PROJECT: Upgrade a dormitory. (Current Mission)

REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their 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. Dormitories in the humid climate of northern Florida require adequate air conditioning and heating. All asbestos containing materials will be removed prior to finishing the interior surfaces of the dormitory. The fire detection and alarm system is required per the Life Safety Code and the National Fire Protection Act (NFPA). Estimated intended utilization is 271 personnel: 261 E1-E4, 9 E5-E6 and 1 E7-E9, with a maximum utilization of 281 personnel.

CURRENT SITUATION: An inadequate heating, ventilation and air conditioning system for this dormitory has created a warm, moist environment that promotes mold and mildew growth, making living conditions unhealthy. Water from the roof leaks into the rooms, further compounding moisture and mildew problems. There are collapsed ceilings, rotted pipes, and ruined interior finishes. Television, telephone and electrical conduits run along exterior walls, creating safety and maintenance

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 DORMITORY	FTFA963032

problems. Bathroom exhaust fans are inadequately sized and improperly located to ventilate odors and moisture. The water heaters and distribution systems are inefficient, taking too long to deliver hot water to the bathrooms. Asbestos containing materials pose a health hazard to dorm occupants and operations and maintenance personnel.

IMPACT IF NOT PROVIDED: The continued use of this dormitory with the air conditioning and heating system in the present condition will have an adverse effect on the health of personnel living in the dormitory. It will also create unnecessary additional expense for maintenance and repair of items that are damaged by mold and mildew. Neglecting to replace the fire detection and alarm panels could result in serious injury or death to dorm occupants in the event of a fire.

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, 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 Military Handbook 1008-B, "Fire Protection for Facilities", dated 15 January 1994. Cost for fire protection is shown separately since this new standard is not yet reflected in OSD approved cost factor for dormitories

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 STORM DRAINAGE SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.80.56	871-183	FTFA963018	1,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE STORM DRAINAGE SYSTEM	LS			1,040
ELIMINATE CROSS-CONNECTIONS	LS			(300)
ELIMINATE RUNOFF FROM INDUSTRIAL AREAS	LS			(375)
REPAIR DRAINAGE DITCHES	LS			(215)
INSTALL NEW CULVERTS	LS			(150)
SUBTOTAL				1,040
CONTINGENCY (10%)				104
TOTAL CONTRACT COST				1,144
SUPERVISION, INSPECTION AND OVERHEAD (6%)				69
TOTAL REQUEST				1,213
TOTAL REQUEST (ROUNDED)				1,200

10. Description of Proposed Construction: Improve storm water quality by eliminating sanitary and process/non-process waters which are cross-connected with the storm drainage system. Divert storm water runoffs from potential contaminate areas and contain potential spill/leak areas. Also, upgrade and seed drainage ditches, and repair collection systems.

11. REQUIREMENT: As required.

PROJECT: Upgrade storm drainage system. (Current Mission)

REQUIREMENT: This is a level II environmental compliance requirement. This project is necessary to comply with Clean Water Act requirements under 40 CFR 122.26. A storm water permit was issued in 1994 and the base must comply with their Storm Water Pollution Prevention Plan by 1997. Adequate stabilized ditches, berms and elimination of cross-connections will prevent heavy runoff from mixing with oil and other industrial contaminates. Reducing run-off volume and velocity will mitigate the impact of heavy flows and allow sediments to settle out of waste streams before entering surrounding surface waters. As part of Eglin AFB's Storm Water Pollution Prevention Plan, the base must certify that non-storm water discharges are not connected to the storm drainage system. Corrective action is required to divert runoff and provide structures to reduce stream contamination.

CURRENT SITUATION: Eglin AFB does not provide adequate storm water run-off control measures from industrial areas of the base, as required by the base's NPDES Permit. There are industrial buildings and other process water discharges where floor drains are connected to the storm drainage system. Storage areas also require berms to reduce contamination potential.

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 STORM DRAINAGE SYSTEM	FTFA963018

IMPACT IF NOT PROVIDED: Eglin AFB will continue to risk contaminating its storm water run-off. This could result in contamination of nearby bays and subject the base to enforcement action. The base will be out of compliance with EPA water regulations with potential fines of up to $25,000 per day per violation.
ADDITIONAL: There is no criteria/scope for this project in 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 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	0.73

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 94	989	5564	482		15		16	28	53	7,147
b. End FY 2000	947	5632	483		19		16	28	53	7,178

7. INVENTORY DATA ($000)

a. Total Acreage: (6,634)	
b. Inventory Total As Of: (30 SEP 94)	135,024
c. Authorization Not Yet In Inventory:	7,829
d. Authorization Requested In This Program:	7,098
e. Authorization Included In Following Program: (FY 1998)	7,700
f. Planned In Next Three Program Years:	19,900
g. Remaining Deficiency:	0
h. Grand Total:	177,551

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	186 PN	7,098	APR 94	JUL 95
		TOTAL:	7,098		

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

179-511	FIRE TRAINING FACILITY	1 EA	1,200
721-312	UNACCOMPANIED ENLISTED HSG	370 PN	6,500
		TOTAL:	7,700

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

131-111	COMMUNICATIONS FACILITY	10,000 SF	1,000
214-425	VEHICLE MAINTENANCE FACILITY	7,000 SF	1,000
219-946	BASE COVERED STORAGE FACILITY	8,000 SF	600
724-417	VISITING OFFICERS QUARTERS	LS	6,000
872-247	SECURITY FENCE	55,000 LF	2,100

10. Mission or Major Functions: HQs Air Force Special Operations Command; a special operations wing with five AC-130/MC-130/MH-53/MH-60 special operations squadron; 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 AUXILIARY 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	7,098

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
TRANSIENT PERSONNEL QUARTERS (186 PN)				5,508
TRANSIENT PERSONNEL QUARTERS	SF	76,500	70	(5,355)
AUTOMATIC SPRINKLER PROTECTION	SF	76,500	2	(153)
SUPPORTING FACILITIES				860
UTILITIES	LS			(175)
SITE IMPROVEMENTS	LS			(150)
PAVEMENTS	LS			(175)
DEMOLITION	SF	22,700	6	(135)
ASBESTOS REMOVAL	SF	22,700	10	(225)
SUBTOTAL				6,368
CONTINGENCY (5%)				318
TOTAL CONTRACT COST				6,686
SUPERVISION, INSPECTION AND OVERHEAD (6%)				401
TOTAL REQUEST				7,087
TOTAL REQUEST (ROUNDED)				7,098

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls and sloped metal roof. Other functional areas include administrative area, conference rooms and a snack area. Includes fire protection, utilities, parking and all necessary support. Demolish one sub-standard facility, 22,700 SF.
Air Conditioning: 120 Tons. Grade Mix: 94 O1-O3; 10 O4-O10; 80 E5-E6; 2 E7-E9.

11. REQUIREMENT: 332 PN ADEQUATE: 120 PN SUBSTANDARD: 111 PN
PROJECT: Construct 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 Field 9. HQ AFSOC is located at Eglin Field 9 drawing large numbers of officers, NCO's, and distinguished visitors to the installation. Additionally, the installation is home for the Blue Flag war game facility, Air Ground Operation School (AGOS), 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 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 tourist season adequate off-base quarters, at reasonable prices, are

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

3. INSTALLATION AND LOCATION	
EGLIN AUXILIARY FIELD 9, FLORIDA	
4. PROJECT TITLE	5. PROJECT NUMBER
TRANSIENT PERSONNEL QUARTERS	FTEV943009

difficult or impossible to find. The problem is further compounded by the increasing AFSOC air crew training requirements as new weapons systems are received. One sub-standard facility totaling 28,000 SF will be demolished upon completion of this project.

IMPACT IF NOT PROVIDED: Large numbers of transient personnel will continue to be housed off base. $1,290,275 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". Fire protection systems for this project meet new standards established in MIL-HNBK 1008B, "Fire Protection Facilities". Cost for fire protection is shown separately since this new standard is not yet reflected in the OSD approved unit cost factor for dormitories. 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 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	0.80

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	446	1832	1125				194	666	560	4,823
b. End FY 2001	402	1655	914				194	666	560	4,391

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:	10,400
e. Authorization Included In Following Program: (FY 1998)	16,600
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	19,743
h. Grand Total:	212,874

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-783	AIR FREIGHT/PASSENGER TERMINAL BASE OPERATIONS FACILITY	47,300 SF	8,200		
149-962	CONTROL TOWER	5,300 SF	2,200		
		TOTAL:	10,400		

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

219-946	BASE ENGINEER COVERED STORAGE	5,975 SF	600		
442-758	BASE SUPPLY/TRAFFIC MANAGEMENT COMPLEX	166,000 SF	12,000		
831-165	SEWAGE TREATMENT & DISPOSAL	LS	4,000		
		TOTAL:	16,600		

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

10. Mission or Major Functions: A space wing; the Air Force Technical Applications Center; and an Air Combat Command HH-60 rescue squadron and an HC-130 rescue squadron. Also, the temporary beddown location for the Air Force Reserve HH-60/HC-130 rescue squadron from Homestead AFB, FL.

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	AIR FREIGHT/PASSENGER TERMINAL BASE OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.59.96	141-783	SXHT963001	8,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AIR FREIGHT/PASSENGER TERMINAL/BASE OPERATIONS FACILITY	SF	47,500		4,008
AIR FREIGHT/PASSENGER TERMINAL	SF	33,200	79	(2,623)
BASE OPERATIONS	SF	8,700	100	(870)
MOBILITY PROCESSING UNIT	SF	5,600	92	(515)
SUPPORTING FACILITIES				3,385
UTILITIES	LS			(350)
PAVEMENTS	SY	19,000	65	(1,235)
SITE IMPROVEMENTS	LS			(225)
DEMOLITION/ASBESTOS REMOVAL	SF	87,500	18	(1,575)
SUBTOTAL				7,393
CONTINGENCY (5%)				370
TOTAL CONTRACT COST				7,763
SUPERVISION, INSPECTION AND OVERHEAD (6%)				466
TOTAL REQUEST				8,229
TOTAL REQUEST (ROUNDED)				8,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(700)

10. Description of Proposed Construction: Construct a new concrete block Air Freight/Passenger Terminal/Base Operations facility. Include space for passengers, baggage handling, vending and administrative areas, a mobility processing unit, and freight storage, handling and distribution. Work includes an access road, an aircraft parking apron, outside freight storage, and demolition of existing facilities.
Air Conditioning: 40 Tons.

11. REQUIREMENT: 47,500 SF ADEQUATE: 0 SUBSTANDARD: 87,500 SF
PROJECT: Construct an air freight/passenger terminal/base operations facility. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. An air freight/passenger terminal/base operations facility is required to receive, process, palletize, and stage shipments of material in support of operations at Antigua and Ascension Islands. As the sole point of embarkation to both these stations, proper facilities are needed to handle the shipment of food, supplies and equipment, as well as to process, manifest and clear customs for passengers/personnel on temporary duty or stationed down-range. In addition to the air freight/passenger terminal operations, space is required to support the base flight operations function, administrative and passenger waiting areas, weather services, and flight planning and crew rest areas. Space is also required to support the wartime mobility commitments of the 45th Space Wing and its various tenants.
CURRENT SITUATION: The existing facility is heavily used. During the 12 month period from July 1992 to June 1993, it was used to process 950 tons and 4,153 passengers inbound, and 2,076 tons and 4,410 passengers outbound. The facility, built in 1945, has deteriorated due to age 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
AIR FREIGHT/PASSENGER TERMINAL BASE OPERATIONS FACILITY	SXHT963001

extreme weather conditions. It is located less than 100 yards from the ocean and subjected to a constant barrage of moisture/salt-water spray, which has corroded the reinforcing steel in the structural members, causing a large amount of cracking and spalling of concrete. The facility leaks excessively during rain storms. Rainwater backs up into cargo bays, creating pools which are dangerous to cargo-handling personnel and which have the potential to damage freight being held in the area. Water also leaks into office areas forcing their evacuation during heavy rains. Due to its deteriorated condition, only emergency maintenance is being performed. In addition to the physical condition of the building, numerous other shortcomings exist. The facility, originally constructed as a hangar, does not function well as a passenger terminal. Neither fire exit/egress codes nor fire separation/protection requirements are met in the hangar or the office/terminal spaces. Passengers must pass through the freight terminal to board or exit aircraft, creating an unsafe environment for the passengers and the freight handlers using heavy equipment. The entrance is also unsafe with extremely limited space for loading/unloading. Passengers must enter/exit the terminal from an entrance less than 10 feet from one of the most heavily travelled roads on Patrick AFB. Demolition of the old, existing facility (87,531 SF) is included in this project.

IMPACT IF NOT PROVIDED: Structural problems will intensify and the general building condition will continue to deteriorate until the entire structure is unfit for use. The air freight/passenger terminal/base operations functions will continue to operate from this aging and poorly sited facility. Traffic and passenger safety will continue to be at risk. Freight will continue to be stored in an aging facility which cannot properly protect it from damage; and failure to provide equipment or replacement parts in a timely manner could have a negative impact on the down-range customers who rely on Patrick AFB for supplies to sustain operations, and could result in a mission delay.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, leasing, status quo, and revitalization. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient alternative 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".

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	2,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONTROL TOWER	LS			1,525
SUPPORTING FACILITIES				440
UTILITIES	LS			(115)
PAVEMENTS	SY	1,700	82	(140)
SITE IMPROVEMENTS	LS			(40)
ELECTRICAL	LS			(40)
COMMUNICATIONS SUPPORT	LS			(40)
ELECTRONIC EQUIPMENT RELOCATION	LS			(65)
SUBTOTAL				1,965
CONTINGENCY (5%)				98
TOTAL CONTRACT COST				2,063
SUPERVISION, INSPECTION AND OVERHEAD (6%)				124
TOTAL REQUEST				2,187
TOTAL REQUEST (ROUNDED)				2,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(175)

10. Description of Proposed Construction: Reinforced concrete foundation, floor slabs, and walls with glass for observation, utilities and necessary support. Includes control cab, mechanical, electrical with back up generator, electronic equipment rooms, and administrative and training areas.
Air Conditioning: 30 Tons.

11. REQUIREMENT: 1 EA ADEQUATE: 0 SUBSTANDARD: 1 EA
PROJECT: Construct a control tower. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A new air traffic control tower including a new cab, is required to provide terminal air traffic control services to aircraft operating to, from, and within the Patrick Air Force Base air traffic area. Full visibility of the runways, airfield, and traffic patterns is required to enable the air traffic controllers to ensure flight safety and the safety of aircraft and vehicles on the ground.
CURRENT SITUATION: The present tower was constructed in 1945 as an integral part of a hangar, and the useful life of the structure has been exceeded. The tower controls a Class II runway with over 60,000 takeoffs and landings per year, but the tower location does not allow full visibility of the overhead pattern when the instrument runway is in use; and visibility to the approach end is limited, creating a significant safety hazard as controllers cannot see vehicles or aircraft in the runway area. The existing facility is located less than 100 yards from the ocean and is constantly exposed to the elements and salt air. The cost is increasing annually for maintaining the structure against continued cracking and spalling, both of which are due to the rusting of the structural steel reinforcement from salt saturation. The tower is still

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

being maintained, but a point will soon be reached when no further corrective actions will be possible, and the structure will have to be condemned for safety reasons. Tower location, overhead pattern viewing, and approach viewing are all problems which were identified in a 1985 control tower survey, were revalidated in a 1991 survey, and are glaring deficiencies which still exist today. The tower will be demolished upon completion of a future MILCON project which replaces the hangar of which it is a part.

IMPACT IF NOT PROVIDED: There is a risk for catastrophic aircraft accident with loss of life. Tight, overcrowded cab conditions will continue to limit air traffic controller mobility and efficiency, and prevent the installation of up-to-date equipment. Flight safety, as well as aircraft ground movements, will remain significantly impaired due to the limited ability to view the approach end of the runway, and a complete lack of visibility in certain parts of the traffic pattern. This facility will continue to physically deteriorate as the harsh marine environment persists in eroding the internal structural components to the point of non-economical repair and, eventually, complete failure.

ADDITIONAL: A preliminary analysis of reasonable options which could achieve this requirement (status quo, renovation, leasing, new construction) 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. 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.

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

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MOODY AIR FORCE BASE, GEORGIA	AIR COMBAT COMMAND	0.85

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	376	3199	459				1	11	33	4,079
b. End FY 2001	396	3206	356				1	11	33	4,003

7. INVENTORY DATA ($000)

a. Total Acreage: (5,931)	
b. Inventory Total As Of: (30 SEP 95)	131,831
c. Authorization Not Yet In Inventory:	31,480
d. Authorization Requested In This Program:	13,300
e. Authorization Included In Following Program: (FY 1998)	6,350
f. Planned In Next Three Program Years:	5,500
g. Remaining Deficiency:	22,810
h. Grand Total:	211,271

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
111-111	REPAIR AND EXTEND RUNWAY	LS	12,300		
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS	1,000		
		TOTAL:	13,300		

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

721-312	ALTER DORMITORY	156	PN	2,300	
740-675	RECREATION LIBRARY	8,000	SF	1,050	
880-211	FIRE PROTECTION	168,423	SF	3,000	
		TOTAL:		6,350	

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

610-129	WEAPONS SYSTEMS MAINT MGT FAC	45,000	SF	4,000	
722-351	DINING FACILITY	10,000	SF	1,500	

10. Mission or Major Functions: A composite wing with two F-16 squadrons, an A/OA-10 squadron, and a C-130 squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	7,190
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
MOODY AIR FORCE BASE, GEORGIA	REPAIR AND EXTEND RUNWAY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96C	111-111	QSEU903001	12,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPAIR AND EXTEND RUNWAY	LS			8,170
REPAIR RUNWAY	SY	89,000	85	(7,565)
EXTEND RUNWAY	SY	19,500	31	(605)
SUPPORTING FACILITIES				2,395
UTILITIES	LS			(825)
DEMOLITION	SY	40,000	25	(1,000)
SITE IMPROVEMENTS	LS			(400)
LAND ACQUISITION	AC	113	1,504	(170)
SUBTOTAL				10,565
CONTINGENCY (10%)				1,057
TOTAL CONTRACT COST				11,622
SUPERVISION, INSPECTION AND OVERHEAD (6%)				697
TOTAL REQUEST				12,319
TOTAL REQUEST (ROUNDED)				12,300

10. Description of Proposed Construction: Extend north end of runway with new asphalt overrun and concrete pavements. Replace deteriorated asphalt and concrete surfaces. Reconstruct touchdown area, aircraft arresting barrier, and at the south end of runway construct new taxiways and provide shoulders for existing taxiways. Include airfield lighting, markings, and runway grooving.

11. REQUIREMENT: 163,000 LS ADEQUATE: 0 SUBSTANDARD: 163,000 LS

PROJECT: Repair and extend runway. (Current Mission).

REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. Provide an adequate and safe primary instrument runway for current mission aircraft. This project will replace deteriorated areas of the existing runway and extend the runway to meet new operational safety standards.

CURRENT SITUATION: The existing primary instrument runway has deteriorated, is in poor condition, and in need of repair to sustain the mission. Existing aircraft touchdown areas contain cracked concrete slabs, and deteriorated surface areas (spalls). Existing asphalt areas are also cracking and developing severe ruts along paths created by landing gear. The two aircraft arresting barriers (BAK-12s) concrete inlays have deteriorated outside the acceptable tolerance for surface roughness. Aircraft overrun surfaces are rough. Excessive maintenance is required to minimize potential damage to aircraft from foreign object damage (FOD).

IMPACT IF NOT PROVIDED: The existing and only primary instrument landing runway at Moody AFB will deteriorate and become unusable because major repairs will not be accomplished. Airfield pavements will remain a major liability to aircraft and pilot safety because of the hazards created by

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

3. INSTALLATION AND LOCATION	
MOODY AIR FORCE BASE, GEORGIA	
4. PROJECT TITLE	5. PROJECT NUMBER
REPAIR AND EXTEND RUNWAY	QSEU903001

deteriorated surfaces. Airfield maintenance cost will continue to increase.

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, repair/upgrade, new construction) was done. Repair and extending the runway is the only option that will meet mission requirements. Therefore, a full economic analysis was not done. A certificate of exception has been prepared.

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	739	3269	11119				16	40	497	16,680
b. End FY 2001	709	3046	8805				16	40	497	14,113

7. INVENTORY DATA ($000)

a. Total Acreage: (8,720)	
b. Inventory Total As Of: (30 SEP 95)	542,303
c. Authorization Not Yet In Inventory:	95,250
d. Authorization Requested In This Program:	25,850
e. Authorization Included In Following Program: (FY 1998)	27,650
f. Planned In Next Three Program Years:	33,100
g. Remaining Deficiency:	105,000
h. Grand Total:	829,153

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
113-321	JSTARS ADAL AIRCRAFT APRON/ HYDRANT FUEL SYSTEM		LS	7,100		
141-753	JSTARS SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	32,000	SF	9,100		
211-111	JSTARS AIRCRAFT MAINTENANCE HANGAR ASSOCIATED SHOPS	6,000	SF	1,650		
722-351	JSTARS ADD TO AND ALTER DINING FACILITY	8,800	SF	4,450		
740-884	JSTARS CHILD DEVELOPMENT CENTER	20,500	SF	3,550		
		TOTAL:		25,850		

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

211-111	J-STARS MAINTENANCE HANGAR	35,000	SF	5,650		
211-154	DEPOT PLANT SERVICES COMPLEX	87,600	SF	7,900		
610-127	ADD TO AND ALTER BASE ENGINEER COMPLEX	29,500	SF	3,450		
721-312	UPGRADE DORMITORY	100,000	SF	7,400		
813-231	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM		LS	3,250		
		TOTAL:		27,650		

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

211-152	INTEGRATED AIRCRAFT SYSTEMS MAINTENANCE FACILITY	170,000	SF	16,500		
211-152	GENERAL PURPOSE ACFT MAINT	55,500	SF	6,000		
211-154	J-STARS AIRCRAFT MAINTENANCE UNIT	12,000	SF	1,600		
211-159	ALTER DEPOT CORROSION CONTROL FACILITY		LS	1,800		
217-712	BATTERY RECHARGE SHOP	10,000	SF	1,600		

10. Mission or Major Functions: Warner Robins Air Logistics Center which is responsible for logistics management, support, & depot-level maintenance of F-15, C-130, & C-141 aircraft, helicopters, and avionics and electronic warfare systems; HQ AFRES; an air base wing; an AMC air

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:

refueliing wing with two KC-135 squadrons; an ACC combat communications group; an Air National Guard bomb wing with B-1 aircraft has been announced; and will be the main operating base for the Joint Surveillance and Target Attack Radar System (JSTARS) aircraft.

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 FUEL SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
6.47.70 TIARA	113-321	UHHZ973008	7,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JSTARS ADAL AIRCRAFT APRON/ HYDRANT FUEL SYSTEM	LS			4,990
SUPPORTING FACILITIES				1,075
UTILITIES	LS			(485)
SITE IMPROVEMENTS	LS			(340)
PAVEMENTS	SY	7,100	35	(250)
SUBTOTAL				6,065
CONTINGENCY (10%)				607
TOTAL CONTRACT COST				6,672
SUPERVISION, INSPECTION AND OVERHEAD (6%)				400
TOTAL REQUEST				7,072
TOTAL REQUEST (ROUNDED)				7,100

10. Description of Proposed Construction: Add to and alter the existing apron and relocate ramp lighting for JSTARS E-8 aircraft. Remove/replace apron and shoulders as needed to install fuel laterals and hydrants. Provide 10 new hydrants and 5 new laterals with connections to the new fuel main, and increase pumping capacity in the fuel pumping station.

11. REQUIREMENT: As required.

PROJECT: Add to and alter the aircraft apron and hydrant fuel system in support of the Joint Surveillance Target Attack Radar System (JSTARS). (New Mission)

REQUIREMENT: An aircraft parking apron with an adequately sized and environmentally safe fuel supply, defuel, and storage system is required. Ramp lighting is required for E-8 aircraft associated with the beddown of the JSTARS mission. The hydrant project is divided into three phases which are scheduled to coincide with the requirement to provide a total of 16 hydrants. The first phase provides for the basic POL system, sufficient pumps, and apron hydrants to support 6 aircraft. The next two phases will support the additional 10 hydrant positions. 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 19 aircraft have been delivered.

CURRENT SITUATION: Sufficient apron space and hydrant support do not exist to support all JSTARs assets scheduled to arrive by the end of FY 1998. The existing apron is sized for the smaller KC-135 aircraft and cannot accommodate the larger E-8 aircraft within current airfield criteria for parking and taxiing. The existing fuel storage and delivery system does not have the capacity or security precautions needed to serve the JSTARS mission. Phase I provided apron space and a fuel system with

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 FUEL SYSTEM	UHHZ973008

pumping capacity for the first six aircraft. The new fuel storage and infrastructure is sized for the end strength for the JSTARS beddown.
IMPACT IF NOT PROVIDED: Sufficient apron, fueling, defueling, security provisions will not be available. This will cause serious delay in the JSTARS beddown and prevent the base from providing the required JSTAR support for aircraft parking, fueling operations, and security.
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 preliminary analysis of reasonable options (status quo, add to and alteration) was done. It indicates that adding to and alteringthe existing apron/hydrant fueling system 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	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	9,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JSTARS SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	LS			7,065
SQUADRON OPERATIONS FACILITY	SF	57,000	115	(6,555)
PREWIRED WORK STATIONS	LS			(510)
SUPPORTING FACILITIES				1,125
UTILITIES	LS			(275)
PAVEMENTS	LS			(400)
SITE IMPROVEMENTS	LS			(450)
SUBTOTAL				8,190
CONTINGENCY (5%)				410
TOTAL CONTRACT COST				8,600
SUPERVISION, INSPECTION AND OVERHEAD (6%)				516
TOTAL REQUEST				9,116
TOTAL REQUEST (ROUNDED)				9,100

10. Description of Proposed Construction: Reinforced concrete footings, foundations, and floor slab, concrete masonry units exterior walls with maintenance free exterior surfaces, structural steel frame, sloped roof, electric security system, site improvements, connection to central chilled water plant, prewired work stations, all other utilities and necessary support to provide a complete and usable facility.
Air Conditioning: 300 Tons.

11. REQUIREMENT: 139,669 SF ADEQUATE: 82,669 SF SUBSTANDARD: 0
PROJECT: Construct a squadron operations/aircraft maintenance unit (Sq Ops/AMU) facility in support of Joint Surveillance Target Attack Radar System (JSTARS). (New Mission)
REQUIREMENT: This facility is required to support the second JSTARS squadron to be assigned to Robins AFB. This project is needed to comply with Air Force guidance to build Objective Wing squadrons combining aircraft operators with flightline maintainers. Space is required for operations and AMU management support, briefings, flight planning standardization/evaluation, training and testing, locker rooms, flying/ground safety, tool rooms, bench stock, mobility office, scheduling, and 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 in FY97. Beginning in FY98, the base will receive 2 aircraft per year until all 19 are obtained. There are no facilities available to support beddown of the second JSTARS squadron.
IMPACT IF NOT PROVIDED: Squadron operations and aircraft maintenance functions associated with the additional E-8 aircraft cannot be

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

accommodated until this project is completed. Failure to support this requirement will jeopardize the overall readiness of the JSTARS mission. 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.

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 AIRCRAFT MAINTENANCE HANGAR ASSOCIATED SHOPS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
6.47.70 TIARA	211-111	UHHZ973010	1,650

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JSTARS AIRCRAFT MAINTENANCE HANGAR				
ASSOCIATED SHOPS	LS			1,419
CORROSION CONTROL SHOPS	SF	6,000	70	(420)
HUMIDITY CONTROL SYSTEM	LS			(199)
LAMINAR FLOW INCREASE	LS			(800)
SUPPORTING FACILITIES				60
SITE IMPROVEMENTS	LS			(10)
UTILITIES	LS			(50)
SUBTOTAL				1,479
CONTINGENCY (5%)				74
TOTAL CONTRACT COST				1,553
SUPERVISION, INSPECTION AND OVERHEAD (6%)				93
TOTAL REQUEST				1,646
TOTAL REQUEST (ROUNDED)				1,650

10. Description of Proposed Construction: Alter an existing hangar in order to provide additional shop space. Upgrade laminar flow to provide 100 feet per minute capability, and incorporate a humidity control system. Includes hangar space and administrative support. Provide extension of existing aircraft access pavement and other necessary support.

11. REQUIREMENT: 9,000 SF ADEQUATE: 3,000 SF SUBSTANDARD: 0

PROJECT: Alter existing hangar to provide aircraft maintenance hangar associated shops in support of the Joint Surveillance Target Attack Radar System (JSTARS). (New Mission)

REQUIREMENT: Additional shop space is required to support maintenance requirements for the additional aircraft to be bedded down in support of the JSTARS mission. Facility requirements also include increased laminar flow and a humidity control system. Facility requirements are required to correlate with the anticipated build-up of E-8 aircraft which are scheduled to arrive at Robins AFB. This project for hangar shop expansion delivers new equipment as needed, which will be sized to meet anticipated increases in workload.

CURRENT SITUATION: The existing aircraft maintenance associated shops and associated support are currently sized and designed to support the E-8 aircraft purchased and scheduled for initial deliveries. The existing shops will be operating at maximum capacity during FY97 and will require expansion in order to support the additional aircraft scheduled to arrive at the base as part of the JSTARS beddown.

IMPACT IF NOT PROVIDED: There will not be enough hangar shop space available to support maintenance requirements associated with the additional E-8 aircraft that are scheduled to arrive as part of the JSTARS beddown. The existing shops will be used at maximum capacity and will not

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 AIRCRAFT MAINTENANCE HANGAR ASSOCIATED SHOPS	UHHZ973010

be able to meet the increased maintenance demands brought on by the arrival of additional aircraft. This will adversely affect the ability to meet anticipated maintenance requirements and will jeopardize the overall readiness of the JSTARS mission.

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.

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 ADD TO AND ALTER DINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
6.47.70 TIARA	722-351	UHHZ973023	4,450

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JSTARS ADD TO AND ALTER DINING FACILITY				1,780
ADDITION	SF	3,000	160	(480)
ALTERATION	SF	10,000	130	(1,300)
SUPPORTING FACILITIES				2,025
UTILITIES	LS			(415)
PAVEMENTS	LS			(300)
SITE IMPROVEMENTS	LS			(155)
INSTALL EQUIPMENT	LS			(1,155)
SUBTOTAL				3,805
CONTINGENCY (10%)				381
TOTAL CONTRACT COST				4,186
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				272
TOTAL REQUEST				4,458
TOTAL REQUEST (ROUNDED)				4,450

10. Description of Proposed Construction: Addition will consist of concrete foundation, floor slab, masonry walls and roof system compatible with existing systems. Entire kitchen area will be reconfigured, serving lines will be replaced, and restrooms will be relocated and expanded. Air Conditioning: 10 Tons.

11. REQUIREMENT: 18,000 SF ADEQUATE: 5,000 SF SUBSTANDARD: 10,000 SF
PROJECT: Add to and alter dining facility to support the Joint Surveillance Target Attack Radar System (JSTARS). (New Mission)
REQUIREMENT: Construct an addition to and alter an existing dining facility to support the increase in manpower brought on by the beddown of the JSTARS at Robins AFB. This requirement is needed to provide an adequately sized and properly configured dining facility for efficient food service operations. The facility must provide adequate space for food preparation, dishwashing, food storage, food serving, and eating area.
CURRENT SITUATION: The airman dining hall is 33 years old, in fair physical condition, but is not large enough or properly configured to efficiently support the increased demand for food services resulting from the JSTARS beddown. The existing facility is configured to accommodate service for 800 meals and is currently operating at maximum capacity. The enlisted strength eligible to eat in the dining hall is increasing to 1250 personnel with the beddown of the JSTARS mission.
IMPACT IF NOT PROVIDED: The existing dining facility will not be able to support the increased demand for food services that results from beddown of JSTARS. Personnel will have low morale due to inadequate food service and will be forced to adhere to extremely crowded and uncomfortable eating conditions.

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 ADD TO AND ALTER DINING FACILITY	UHHZ973023

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide", and 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 this addition and alteration option provides the optimal solution for meeting 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	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	3,550

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JSTARS CHILD DEVELOPMENT CENTER	SF	20,500	110	2,255
SUPPORTING FACILITIES				920
UTILITIES	LS			(300)
PAVEMENTS	LS			(255)
SITE IMPROVEMENTS	LS			(240)
PLAYGROUND EQUIPMENT	LS			(125)
SUBTOTAL				3,175
CONTINGENCY (5%)				159
TOTAL CONTRACT COST				3,334
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				217
TOTAL REQUEST				3,551
TOTAL REQUEST (ROUNDED)				3,550

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, structural steel frame and metal pitched roof. Includes multi-purpose, isolation and storage rooms, kitchen and fenced playground area and other necessary support.
Air Conditioning: 30 Tons.

11. REQUIREMENT: 38,800 SF ADEQUATE: 18,300 SF SUBSTANDARD: 3,512 SF
PROJECT: Construct a child development center to support the Joint Surveillance Target Attack Radar System (JSTARS). (New Mission)
REQUIREMENT: This facility requirement is in accordance with the military Child Care Act of 1989. Child development services are required for 274 dependent children associated with the beddown of the 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 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.
CURRENT SITUATION: Robins AFB is the site of the JSTARS mission beddown. The increase in personnel associated with this new mission will almost double the present base military population. The existing child development center is already at maximum capacity, with approximately 104 children currently on the waiting list. This project is needed to satisfy

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 additional child care demand which will result from the JSTARS beddown. 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, 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 either quit work or 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 PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
HICKAM AIR FORCE BASE, HAWAII	PACIFIC AIR FORCES	1.64

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	688	2638	1797				32	232	225	5,612
b. End FY 2001	680	2552	1823				32	232	225	5,544

7. INVENTORY DATA ($000)

a. Total Acreage: (7,931)	
b. Inventory Total As Of: (30 SEP 95)	581,077
c. Authorization Not Yet In Inventory:	22,800
d. Authorization Requested In This Program:	3,150
e. Authorization Included In Following Program: (FY 1998)	9,200
f. Planned In Next Three Program Years:	19,000
g. Remaining Deficiency:	241,487
h. Grand Total:	876,714

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-315	ALTER TRANSIENT DORMITORY	25,100 SF	3,150	JAN 95	NOV 96
		TOTAL:	3,150		

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

442-257	FLAMMABLE STORAGE WAREHOUSE	11,500 SF	1,200
610-284	RENOV HQ PACAF COMPLEX PH V	47,000 SF	3,000
721-312	ALTER UNACCOMPANIED ENLISTED DORMITORY	352 PN	5,000
		TOTAL:	9,200

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

113-321	UPGRADE AIRFIELD APRON, PH II	109,000 SY	10,600
610-249	CONSOLIDATED MOBILITY CENTER	8,100 SF	1,400
721-315	DORMITORY	72 PN	7,000

10. Mission or Major Functions: Headquarters Pacific Air Forces; an Air National Guard Group with C-130, F-15A/B, and KC-135 aircraft. Other major activities include an Air Intelligence Agency intelligence group and an airlift support 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:	2,445

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	ALTER TRANSIENT DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96P	721-315	KNMD943008	3,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER TRANSIENT DORMITORY (110 PN)				2,485
ALTERATION	SF	25,100	97	(2,435)
AUTOMATIC SPRINKLER PROTECTION	SF	25,100	2	(50)
SUPPORTING FACILITIES				190
UTILITIES	LS			(20)
COMMUNICATIONS SUPPORT	LS			(25)
SITE IMPROVEMENTS	LS			(25)
SOLAR APPLICATIONS	LS			(120)
SUBTOTAL				2,675
CONTINGENCY (10%)				268
TOTAL CONTRACT COST				2,943
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				191
TOTAL REQUEST				3,134
TOTAL REQUEST (ROUNDED)				3,150
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(310)

10. Description of Proposed Construction: Electrical, structural, architectural, and mechanical alterations. Convert dormitory from central latrine to room-bath-room configuration. Includes exterior entrances, lounges, storage, fire protection, handicapped access to first floor common areas, landscaping, and all other necessary support.
Air Conditioning: 85 Tons. Grade Mix: 96 E1-E4; 14 E5-E6.

11. REQUIREMENT: 1,471 SF ADEQUATE: 779 SF SUBSTANDARD: 254 SF
PROJECT: Alter transient dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A major Air Force objective is to provide unaccompanied enlisted personnel with housing that will be conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters, which provide some degree of individual privacy, are essential to successfully accomplish the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: The facility to be altered was constructed in 1968 to standards in effect at that time. It has central latrines, no private entrances, insufficient noise attenuation for shift workers resting at various hours, and it lacks the necessary amenities found in modern dormitories.
IMPACT IF NOT PROVIDED: Substandard living conditions will continue to degrade the morale, productivity and career satisfaction of the enlisted force.
ADDITIONAL: This project meets the criteria/scope specified in Part II of MIL-HNBK 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

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
ALTER TRANSIENT DORMITORY		KNMD943008

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 for Facilities". Cost for fire protection is shown separately since this new standard is not reflected in OSD approved unit cost factor for dormitories.

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	350	2824	496				2	16	49	3,737
b. End FY 2001	411	3308	390				2	16	49	4,176

7. INVENTORY DATA ($000)

a. Total Acreage: (13,607)	
b. Inventory Total As Of: (30 SEP 95)	205,333
c. Authorization Not Yet In Inventory:	15,950
d. Authorization Requested In This Program:	8,000
e. Authorization Included In Following Program: (FY 1998)	500
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	53,330
h. Grand Total:	283,113

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	24,800 SF	5,000	JUL 93	JAN 95
179-481	IDAHO TRAINING RANGE (SOUTH SITE)	LS	3,000		
		TOTAL:	8,000		

9a. Future Projects: Included in the Following Program (FY 1998)		
721-312 UPGRADE DORMITORY	106 PN	500
	TOTAL:	500

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

10. Mission or Major Functions: A composite wing with one F-16 squadron, one F-15E squadron, one KC-135R squadron, one E-3B/C squadron (programmed, but on indefinite hold due to real world contingency requirements), and a geographically separated unit (GSU) 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	5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FLIGHTLINE FIRE STATION	SF	29,000	135	3,915
SUPPORTING FACILITIES				615
UTILITIES	LS			(50)
PAVEMENTS	SY	12,000	19	(230)
SITE IMPROVEMENTS	LS			(40)
FIRE PROTECTION SYSTEM	SF	29,000	5	(145)
DEMOLITION	SF	16,000	9	(145)
ASBESTOS REMOVAL	LS			(5)
SUBTOTAL				4,530
CONTINGENCY (5%)				227
TOTAL CONTRACT COST				4,757
SUPERVISION, INSPECTION AND OVERHEAD (6%)				285
TOTAL REQUEST				5,042
TOTAL REQUEST (ROUNDED)				5,000

10. Description of Proposed Construction: Construct steel frame, masonry structure with concrete floor and foundation, and sloped metal roof. Includes drive through stalls, administrative, supply, sleeping, exercise, training, recreation, and dining areas. Includes access apron, utilities, fire protection, and other necessary support. Demolishes the existing fire station.
Air Conditioning: 46 Tons.

11. REQUIREMENT: 31,400 SF ADEQUATE: 0 SUBSTANDARD: 16,000 SF
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 store and maintain fire fighting apparatus assigned for protection of small and large composite wing aircraft. Aircraft assigned to the composite wing require large fire crash/rescue vehicles to support the mission. The base has a total of four new P-23 vehicles due to arrive and replace existing crash vehicles. Adequate space is required to house vehicles, 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. The station location must be suited for rapid response to the ramp and allow visual observation of the flightline area.
CURRENT SITUATION: There is currently one substandard fire station on base. It is a 1953 facility which was designed to accommodate a smaller fire protection requirement than that now required by the composite wing. The composite wing requires an increase in the size and number of fire fighting vehicles. These new vehicles cannot be accommodated in the existing facility. Some vehicles now at the installation are not

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

adequately protected from severe weather conditions and are being sheltered by ineffective canopy covers attached to the station. This equipment is exposed to extremes of below-freezing weather conditions. Two main pieces of crash/rescue equipment are also currently housed over a mile away from the existing station. Two additional P-23 vehicles scheduled to arrive soon will also have to be located away from the existing station. There are not enough sleeping quarters for all fire fighters assigned. The dining, storage, and physical fitness areas are also insufficient. The existing facility is in very poor condition and contains asbestos. The sleeping quarters are not separated from the bay and are in violation of OSHA regulations. Alteration and enlargement of the existing facility to accommodate additional vehicles and personnel is not possible due to site limitations imposed by the close proximity of other buildings.

IMPACT IF NOT PROVIDED: The fire fighting personnel and their equipment will continue to operate in a substandard facility which is inadequate for meeting functional and operational requirements. Fire fighting apparatus will continue to be exposed to the weather extremes. Valuable Air Force assets and people will continue to be placed in a risky situation during these periods. New $400,000 firefighting vehicles cannot be housed in the existing facility and will be subject to the elements.

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. The structural fire station requirement for this installation will be met with a FY93 Base Realignment and Closure (BRAC) project (QYZH923203) that will construct a fire station in the housing area.

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	IDAHO TRAINING RANGE (SOUTH SITE)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.97	179-481	QYZH973012	3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IDAHO TRAINING RANGE (SOUTH SITE)	LS			1,296
MAINTENANCE FACILITIES	SF	10,000	110	(1,100)
TARGET AREAS/TARGET SITES	EA	2	98,000	(196)
SUPPORTING FACILITIES				1,405
IMPROVE EXISTING ROADS	LF	30,500	31	(945)
UTILITIES	LS			(100)
SITE IMPROVEMENTS	LS			(30)
FENCING (VARIOUS TYPES)	LF	55,000	6	(330)
SUBTOTAL				2,701
CONTINGENCY (5%)				135
TOTAL CONTRACT COST				2,836
SUPERVISION, INSPECTION AND OVERHEAD (6%)				170
TOTAL REQUEST		-		3,006
TOTAL REQUEST (ROUNDED)				3,000

10. Description of Proposed Construction: Develop a five-acre site to include a steel frame, metal-sided facility on a concrete pad. Include diesel generator, waterwell, pump, piping, and storage, and waste water septic system. Construct helicopter pad, gravel parking lot, gravel access roads, firebreaks, security fencing, and two target areas and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct Idaho Training Range (South Site). (New Mission)

REQUIREMENT: A new range is required to provide realistic training for aircrews to maintain combat capability. The range must provide a variety of near-real targets to simulate conditions that can be expected in a real combat scenario. The Class C range at the south site will consist of two target areas with two target sites. Class C ranges are unmanned, with no scoring capability or aircraft control from the ground. This Class C range in combination with the Class B range at the north site will permit aircrews to conduct training exercises that simulate conditions involving front line and deep interdiction scenarios. Facilities are required to provide range maintenance as well as administrative space. The training infrastructure must provide realistic simulated battlefield conditions. To maximize efficiency, cost effectiveness and unit readiness, the training infrastructure must be locally available.

CURRENT SITUATION: Saylor Creek Range (SCR) is approximately 40 miles southeast of Mt Home AFB and has limited capability for composite wing training. The SCR can not be used to train composite force activities, which is a composite wing requirement. Composite wing aircraft must fly to distant ranges for other training such as: flag exercises or first look targets. Aircraft must refuel in-flight or refuel at other bases

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
IDAHO TRAINING RANGE (SOUTH SITE)	QYZH973012

before and/or after the mission. Approximately 3,000 hours of flying time are now used in transit to more distant ranges in Utah and Nevada. Because of the increased flight time required for these activities and the additional fuel consumed, obtaining this training on a routine basis is neither practical nor cost-effective. Distant aircrew training ranges require additional flying time and the associated requirement and cost for additional tanker missions for in-flight refueling when required. The SCR cannot support the full scale composite force training requirement because it does not provide the air space and range infrastructure to allow the use of the full range of target options such as: forward edge of the battle area, battlefield air interdiction, and deep interdiction options. IMPACT IF NOT PROVIDED: The composite wing will not have the facilities required to meet the current combat training requirements. The wing will be forced to continue using distant training ranges, which results in increased sortie lengths, associated tanker missions for in-flight refueling when required, extra fuel consumption, and less training time on the ranges for aircrew members to improve and maintain combat proficiency. 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". The land is being obtained through a land exchange between The State of Idaho and the Bureau of Land Management. Some private land may be purchased using funds provided in the Military Construction Appropriations Act, of 1994. 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 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	934	4925	1267		132	1	3	5	15	7,282
b. End FY 2001	916	4852	1068		132	1	3	5	15	6,992

7. INVENTORY DATA ($000)

a. Total Acreage: (22,382)	
b. Inventory Total As Of: (30 SEP 95)	236,084
c. Authorization Not Yet In Inventory:	50,680
d. Authorization Requested In This Program:	3,600
e. Authorization Included In Following Program: (FY 1998)	2,450
f. Planned In Next Three Program Years:	3,300
g. Remaining Deficiency:	109,100
h. Grand Total:	405,214

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	15,000 SF	2,600		
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS	1,000		
		TOTAL:	3,600		

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

740-674	PHYSICAL FITNESS CENTER	18,200 SF	2,450
		TOTAL:	2,450

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

871-183	ADD TO AND ALTER STORM DRAINAGE FACILITIES	LS	3,300

10. Mission or Major Functions: Headquarters Eighth Air Force; a flying 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 and 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	COMMUNICATIONS SYSTEMS SQUADRON COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.72.36	131-111	AWUB942302	2,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMMUNICATIONS SYSTEMS SQUADRON COMPLEX	LS			1,297
WAREHOUSE	SF	11,000	45	(495)
OPERATIONAL SUPPORT	SF	3,500	93	(326)
ARMORY	SF	500	125	(63)
MWR EQUIPMENT RENTAL	SF	7,500	55	(413)
SUPPORTING FACILITIES				1,025
UTILITIES	LS			(350)
PAVEMENTS	LS			(300)
DEMOLITION	LS			(175)
SITE IMPROVEMENTS	LS			(200)
SUBTOTAL				2,322
CONTINGENCY (5%)				116
TOTAL CONTRACT COST				2,438
SUPERVISION, INSPECTION AND OVERHEAD (6%)				146
TOTAL REQUEST				2,584
TOTAL REQUEST (ROUNDED)				2,600

10. Description of Proposed Construction: Concrete foundation and floor slab, poured concrete reinforced walls, structural steel frame and built-up roof. Demolish two buildings. Includes parking lot, back-up power, fire protection, all utilities and necessary support.
Air Conditioning: 5 Tons.

11. REQUIREMENT: 64,061 SF ADEQUATE: 49,061 SF SUBSTANDARD: 21,473 SF
PROJECT: Construct a communications systems squadron complex. (New Mission)
REQUIREMENT: A properly configured and adequately sized facility is required to support new operational and communication system supply storage requirements of the 8th Air Force. Requirements include the operational use of the Inter-Service/Agency Automated Message Processing Exchange (I-S/A AMPE) system, a program designed to modernize and replace the existing Automated Message Processing Exchange (AMPE) and Autodin Switching Centers (ASCs) and provide connection to the Defense Data Network (DDN). The I-S/A AMPE system is a mobile unit and will provide inter-operability capability with all services.
CURRENT SITUATION: The site of an existing MWR equipment facility will be required for the construction of this facility. Therefore, a new MWR equipment facility will be required to be constructed as a part of this project. Existing communications operations have expanded, and the communications systems squadron has been forced to use existing space at the installation which has proven to be inadequate for meeting operational and storage requirements, and installation of the I-S/A AMPE. The existing facilities are too small, and lack sufficient electrical power and adequate utilities. There are no adequate facilities at the base that provide suitable space for the I-S/A AMPE.

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

IMPACT IF NOT PROVIDED: There will be no facility available to accommodate the 8th Air Force communications mission, including the I-S/A AMPE function. The operational unit will be forced to continue communications operations at the present location which is inadequate to house new mission requirements. There will continue to be a deterioration of the quality of the current mission performance, of equipment responsiveness and reliability, and maintenance costs will continue to grow.

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 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	1133	4267	2214				151	1185	275	9,225
b. End FY 2001	1116	4229	2107				151	1185	275	9,063

7. INVENTORY DATA ($000)

a. Total Acreage: (7,489)	
b. Inventory Total As Of: (30 SEP 95)	380,930
c. Authorization Not Yet In Inventory:	21,640
d. Authorization Requested In This Program:	8,700
e. Authorization Included In Following Program: (FY 1998)	16,750
f. Planned In Next Three Program Years:	22,550
g. Remaining Deficiency:	80,200
h. Grand Total:	530,770

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	ALTER DORMITORIES	434 PN	8,700		
		TOTAL:	8,700		

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

411-135	IMPROVE JET FUEL STORAGE	LS	8,250
610-287	REPAIR SPECIFIED HEADQUARTERS	LS	4,000
740-884	CHILD DEVELOPMENT CENTER	24,000 SF	4,500
		TOTAL:	16,750

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	26,000 SF	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	31,400 SF	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, and VC-25 and UH-1 aircraft); an AFRES airlift wing with a C-141 squadron; Air National Guard (ANG) wing with a F-16 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 DORMITORIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	721-312	AJXF973001	8,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORIES (434 PN)				5,139
ALTERATION	SF	119,500	41	(4,900)
AUTOMATIC SPRINKLER PROTECTION	SF	119,500	2	(239)
SUPPORTING FACILITIES				2,300
UTILITIES	LS			(2,200)
COMMUNICATIONS SUPPORT	LS			(100)
SUBTOTAL				7,439
CONTINGENCY (10%)				744
TOTAL CONTRACT COST				8,183
SUPERVISION, INSPECTION AND OVERHEAD (6%)				491
TOTAL REQUEST				8,674
TOTAL REQUEST (ROUNDED)				8,700

10. Description of Proposed Construction: Alter two three-story structures to include common kitchenettes (one per floor), laundry, automatic sprinkler protection, and storage areas. Upgrade interior finishes throughout and upgrade communications systems. Includes all necessary support.
Air Conditioning: 230 Tons. Grade Mix: 434 E1-E4.

11. REQUIREMENT: As required.
PROJECT: 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. Estimated intended utilization is 434 personnel: 434 E1-E4, with a maximum utilization of 434 personnel.
CURRENT SITUATION: Existing dormitories do not meet dormitory design standards. Major inefficiencies include substandard HVAC systems, poor lighting, and lack of fire sprinkler systems. The HVAC systems will be converted to a four pipe system to provide more efficient heating and air conditioning for the dorm occupants. All interior finishes and interior doors are worn, outdated, and require replacement. Dormitories lack 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 continue to be degraded. Excessive energy consumption and maintenance costs will continue to prevail if these facility systems are not upgraded.

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 DORMITORIES	AJXF973001

ADDITIONAL: This project meets the criteria/scope specified in the new uniform barricks 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. Fire protection for this project meets new standards established in MIL-HNBK 1008B, Fire Protection for Facilities, published 15 January 1994. Cost for fire protection is shown separately since this new standard is not yet reflected in the OSD approved unit cost factor for dormitories.

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:	1,200
e. Authorization Included In Following Program: (FY 1998)	13,950
f. Planned In Next Three Program Years:	9,900
g. Remaining Deficiency:	62,820
h. Grand Total:	768,142

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES		LS	1,200		
		TOTAL:		1,200		

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

740-443	TRANSIENT LODGING FACILITY	8	UN	750
740-674	PHYSICAL FITNESS CENTER	14,500	SF	2,500
851-147	B-2 BASE ROADS	6,000	LF	4,500
880-232	ADD TO AND ALTER FIRE SUPPRESSION SYSTEM		LS	6,200
	TOTAL:			13,950

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

442-758	WAREHOUSE	107,000	SF	9,900

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.

11. Outstanding pollution and safety (OSH) deficiencies:

a.	Air pollution:	3,000
b.	Water pollution:	14,190
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
WHITEMAN AIR FORCE BASE, MISSOURI	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	831-155	YWHG972005	1,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS			871
SUPPORTING FACILITIES				205
UTILITIES	LS			(105)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(50)
SUBTOTAL				1,076
CONTINGENCY (5%)				54
TOTAL CONTRACT COST				1,130
SUPERVISION, INSPECTION AND OVERHEAD (6%)				68
TOTAL REQUEST				1,198
TOTAL REQUEST (ROUNDED)				1,200

10. Description of Proposed Construction: Construct industrial wastewater pretreatment facilities to include package plants, oil/water separators, point source treatment/recovery/removal and required supporting facilities.

11. REQUIREMENT: As required.

PROJECT: Construct industrial wastewater pretreatment facilities. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Whiteman AFB is subject to the pretreatment standards of the Clean Water Act (CWA) administered through the National Pollution Discharge Elimination System (NPDES) Permit issued by the State of Missouri, Department of Natural Resources, Division of Environmental Quality. Amendments to the CWA as well as the anti-back sliding provision of NPDES make it increasingly difficult for Whiteman AFB to maintain full compliance with its NPDES Permit. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative to the proposed pretreatment facilities. The project is programmed to pretreat industrial effluent from approximately 12 facilities.

CURRENT SITUATION: Whiteman AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into the Brewer Branch of the Blackwater River. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic removal. On-going pollution

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
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	YWHG972005

prevention and product substitution initiatives are decreasing the total volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative.

IMPACT IF NOT PROVIDED: Enforcement actions will increase as it becomes more difficult for Whiteman AFB to maintain compliance with its NPDES Permit. Non-compliance with the NPDES will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day.

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 PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
MALMSTROM AIR FORCE BASE, MONTANA	AIR FORCE SPACE COMMAND	1.16

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	613	3578	431				1	21	207	4,851
b. End FY 2001	610	3582	410				1	21	207	4,831

7. INVENTORY DATA ($000)

a. Total Acreage: (3,673)	
b. Inventory Total As Of: (30 SEP 95)	359,762
c. Authorization Not Yet In Inventory:	12,800
d. Authorization Requested In This Program:	2,000
e. Authorization Included In Following Program: (FY 1998)	9,800
f. Planned In Next Three Program Years:	2,700
g. Remaining Deficiency:	30,000
h. Grand Total:	417,062

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	1 EA	2,000	SEP 92	JUN 95
		TOTAL:	2,000		

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

113-321	KC-135 UPGRADE AIRCRAFT PARKING APRON & WIDEN TAXIWAY	20,000 SY	2,000
130-142	ADD TO AND ALTER FIRE/CRASH RESCUE STATION	13,400 SF	2,100
214-426	VEHICLE READINESS FACILITY	27,000 SF	4,200
442-758	WAREHOUSE	14,000 SF	1,500
		TOTAL:	9,800

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

214-426	REFUELING VEHICLE READINESS	10,800 SF	1,100
730-773	ADD TO AND ALTER CHAPEL CENTER	7,600 SF	1,100
740-675	ADD TO AND ALTER RECREATION LIBRARY	4,000 SF	500

10. Mission or Major Functions: A missile wing consisting of four Minuteman intercontinental ballistic missile squadrons (conversion from Minuteman II to Minuteman III on hold) and UH-1 aircraft; and an Air Mobility Command air refueling group with one KC-135 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
MALMSTROM AIR FORCE BASE, MONTANA	CONTROL TOWER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.51.14	149-962	NZAS894012	2,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONTROL TOWER	EA	1	600,000	1,600
SUPPORTING FACILITIES				195
UTILITIES	LS			(45)
PAVEMENTS	LS			(20)
SITE IMPROVEMENTS	LS			(50)
EMERGENCY GENERATOR	EA	1	30,000	(30)
DEMOLITION	SF	1,000	50	(50)
SUBTOTAL				1,795
CONTINGENCY (5%)				90
TOTAL CONTRACT COST				1,885
SUPERVISION, INSPECTION AND OVERHEAD (6%)				113
TOTAL REQUEST				1,998
TOTAL REQUEST (ROUNDED)				2,000

10. Description of Proposed Construction: Reinforced concrete footings, special foundation, floor slab, supporting superstructure, control tower cab, operations and training areas. Facility includes all site work, utilities, mechanical, electrical, fire protection and backup power systems. Existing tower will be demolished.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 1 EA ADEQUATE: 0 SUBSTANDARD: 1 EA
PROJECT: Construct a control tower. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A new control tower with a larger cab is needed to accommodate up to 11 control tower personnel, air traffic control equipment, operations, crew briefings, and training functions, for aircraft operating within the Malmstrom area.
CURRENT SITUATION: The existing tower was built in 1953 as an integral part of a hangar. It has steel columns supporting wooden floors and walls. Initially, the existing 250 square foot tower cab housed two controllers and some 1950s vintage equipment. Aircraft characteristics and the base mission have changed substantially since then, and more controllers and equipment are required now to safely control aircraft. The tower operates 24 hours per day, seven days per week, and provides control for 18,500 operations per year. Malmstrom is a home base for KC-135Rs, T-38s and UH-1 helicopters. The tower has two major operational deficiencies and two life safety deficiencies. The height of the present tower does not provide the clear line-of-sight which is necessary to allow controllers to observe all aircraft movements. The cab is too small to house the people and the equipment needed to positively control aircraft on the airfield and in the airfield area. The wooden tower does not have

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
CONTROL TOWER	NZAS894012

a fire detection or suppression system. Access to the fire escape is limited and requires evacuation through the mechanical room. Upon completion of this project, the existing tower will be demolished.
IMPACT IF NOT PROVIDED: Tower height and cab space deficiencies can only be remedied by replacing the tower. Overcrowded cab conditions and inability to observe all aircraft on the airfield or in the airfield area will continue to impede positive air traffic control. These conditions could jeopardize pilot and crew safety, and contribute to an aircraft mishap.
ADDITIONAL: There are no criteria 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". The scope for this project was established in accordance with the Air Force Design Guide for Air Traffic Control Towers. A preliminary analysis of this project considered three alternatives: status quo, modify the existing tower, and construct a new tower. Status quo would not eliminate all deficiencies. Modification of the existing tower was determined to be technically infeasible. A structural assessment of the tower revealed that the existing tower shaft would not support a larger and heavier (60 ton) cab. New construction is the only viable alternative.

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

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
OFFUTT AIR FORCE BASE, NEBRASKA	AIR COMBAT COMMAND	0.98

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 95	1932	6880	1382				246	135	105	10,680
b. End FY 2001	1892	6973	1214				246	135	105	10,565

7. INVENTORY DATA ($000)

a. Total Acreage: (3,992)	
b. Inventory Total As Of: (30 SEP 95)	456,975
c. Authorization Not Yet In Inventory:	4,560
d. Authorization Requested In This Program:	1,200
e. Authorization Included In Following Program: (FY 1998)	11,500
f. Planned In Next Three Program Years:	20,100
g. Remaining Deficiency:	17,650
h. Grand Total:	511,985

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES		LS	1,200		
			TOTAL:	1,200		

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

121-124	UPGRADE JET FUEL PUMPING FACILITY		LS	3,300
442-758	WAREHOUSE	20,000	SF	2,500
813-000	UPGRADE ELECTRIC SUBSTATION		LS	5,700
			TOTAL:	11,500

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

121-124	UPGRADE HYDRANT FUEL PUMPING SYSTEM		LS	18,600
179-475	COMBAT ARMS TRAINING AND MAINTENANCE FACILITY		LS	1,500

10. Mission or Major Functions: Headquarters United States Strategic Command; a flying wing which consists of two RC-135/OC-135/TC-135 reconnaissance squadrons, two E-4/EC-135 airborne command and control squadrons, that maintain a modified alert posture, C-21 aircraft; two intelligence squadrons; a space operation squadron; and Air Force Global Weather Central.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	7,990
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
OFFUTT AIR FORCE BASE, NEBRASKA	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	831-155	SGBP972500	1,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS			900
SUPPORTING FACILITIES				170
UTILITIES	LS			(100)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(20)
SUBTOTAL				1,070
CONTINGENCY (5%)				54
TOTAL CONTRACT COST				1,124
SUPERVISION, INSPECTION AND OVERHEAD (6%)				67
TOTAL REQUEST				1,191
TOTAL REQUEST (ROUNDED)				1,200

10. Description of Proposed Construction: Construct industrial wastewater pretreatment facilities to include package plants, oil/water separators, point source treatment/recovery/removal and required supporting facilities.

11. REQUIREMENT: As required.

PROJECT: Construct industrial wastewater pretreatment facilities. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Offutt AFB is subject to the pretreatment standards of the Clean Water Act (CWA) as administered through the City of Omaha. Amendments to the CWA as well as the anti-back sliding provision of the National Pollution Discharge Elimination System (NPDES) make it increasingly difficult for Offutt AFB to maintain full compliance with the law. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative. The project is programmed to pretreat industrial effluent from approximately 12 facilities.

CURRENT SITUATION: Offutt AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into the City of Omaha sewer system which ultimately discharges into the Missouri River. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic removal. On-going pollution prevention and product substitution initiatives are decreasing the total volume of

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
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	SGBP972500

industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facilities.

IMPACT IF NOT PROVIDED: Enforcement actions will increase as it becomes more difficult for Offutt AFB to maintain compliance with the CWA. Non-compliance with the CWA will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day.

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 PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
NELLIS AIR FORCE BASE, NEVADA	AIR COMBAT 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	891	6317	1064				8	27	254	8,561
b. End FY 2001	775	5391	838				8	27	254	7,293

7. INVENTORY DATA ($000)

a. Total Acreage: (24,419)	
b. Inventory Total As Of: (30 SEP 95)	375,963
c. Authorization Not Yet In Inventory:	11,480
d. Authorization Requested In This Program:	1,350
e. Authorization Included In Following Program: (FY 1998)	8,500
f. Planned In Next Three Program Years:	3,596
g. Remaining Deficiency:	35,650
h. Grand Total:	436,539

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS	1,350		
		TOTAL:	1,350		

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

721-315	VISITING AIRMEN QUARTERS	175	PN	8,500	
		TOTAL:		8,500	

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

141-456	OPERATIONS FACILITY	17,000	SF	3,596	

10. Mission or Major Functions: Air Warfare Center; a flying wing that includes the Weapons School (A-10, F-15, F-15E, and F-16 aircraft), a fighter squadron, an adversary threat group (Red Flag), a test squadron (F-4G, F-15 and F-16 aircraft), the USAF Air Demonstration Squadron (Thunderbirds), and a HH-60 rescue squadron; Air Force Combat Rescue School; a joint training unit (Air Warrior); a RED HORSE Squadron; and an Air Force Materiel Command Munitions Squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	4,850
b. Water pollution:	15,690
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
NELLIS AIR FORCE BASE, NEVADA	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	831-155	RKMF972500	1,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS			1,000
SUPPORTING FACILITIES				205
UTILITIES	LS			(125)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				1,205
CONTINGENCY (5%)				60
TOTAL CONTRACT COST				1,265
SUPERVISION, INSPECTION AND OVERHEAD (6%)				76
TOTAL REQUEST				1,341
TOTAL REQUEST (ROUNDED)				1,350

10. Description of Proposed Construction: Construct industrial wastewater pretreatment facilities to include package plants, oil/water separators, point source treatment/recovery/ removal and required supporting facilities.

11. REQUIREMENT: As required.

PROJECT: Construct industrial wastewater pretreatment facilities. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Nellis AFB is subject to the pretreatment standards of the Clean Water Act (CWA) administered through the Industrial Wastewater Discharge Permit issued by the Clark County Sanitation District (CCSD). Amendments to the CWA as well as the anti-back sliding provision of the National Pollution Discharge Elimination System (NPDES) make it increasingly difficult for Nellis AFB to maintain full compliance with its Industrial Wastewater Discharge Permit. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative. The project is programmed to pretreat industrial effluent from approximately 12 facilities.

CURRENT SITUATION: Nellis AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into CCSD sewer system which ultimately discharges in Lake Mead. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic

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

3. INSTALLATION AND LOCATION	
NELLIS AIR FORCE BASE, NEVADA	
4. PROJECT TITLE	5. PROJECT NUMBER
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	RKMF972500

removal. On-going pollution prevention and product substitution initiatives are decreasing the total volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facilities.

IMPACT IF NOT PROVIDED: Enforcement actions will increase as it becomes more difficult for Nellis AFB to maintain compliance with its Industrial Wastewater Discharge Permit. Non-compliance with the Industrial Wastewater Discharge Permit will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day.

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 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	532	3627	1596						231	5,986
b. End FY 2001	548	3519	1514						231	5,812

7. INVENTORY DATA ($000)

a. Total Acreage: (3,602)	
b. Inventory Total As Of: (30 SEP 95)	243,986
c. Authorization Not Yet In Inventory:	47,400
d. Authorization Requested In This Program:	6,200
e. Authorization Included In Following Program: (FY 1998)	9,600
f. Planned In Next Three Program Years:	5,600
g. Remaining Deficiency:	57,220
h. Grand Total:	370,006

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT FACILITY	31,600 SF	6,200	JUN 93	OCT 94
		TOTAL:	6,200		

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

721-312	ALTER DORMITORIES	252 PN	8,000
880-212	DELUGE SYSTEM	LS	1,600
		TOTAL:	9,600

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

721-312	ALTER DORMITORIES	224 PN	5,600

10. Mission or Major Functions: Headquarters Twenty-First Air Force; an air mobility wing with three C-141 squadrons and two KC-10A squadrons; the east coast 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	SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	141-753	PTFL953010	6,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT FACILITY	SF	31,600	145	4,582
SUPPORTING FACILITIES				1,005
UTILITIES	LS			(330)
PAVEMENTS	LS			(270)
SITE IMPROVEMENTS	LS			(305)
ELEVATOR	EA	1	100,000	(100)
SUBTOTAL				5,587
CONTINGENCY (5%)				279
TOTAL CONTRACT COST				5,866
SUPERVISION, INSPECTION AND OVERHEAD (6%)				352
TOTAL REQUEST				6,218
TOTAL REQUEST (ROUNDED)				6,200

10. Description of Proposed Construction: Two-story facility with concrete foundation, masonry walls, structural steel frame, sloping roof system, fire protection system, utilities, elevator, site improvements, and necessary support.
Air Conditioning: 65 Tons.

11. REQUIREMENT: As required.
PROJECT: Construct a Squadron Operations/Aircraft Maintenance Unit (Sq Ops/AMU) facility. (Current Mission)
REQUIREMENT: This is a level I Commander's Facility Assessment project. It is required to comply with Air Force guidance to build Objective Wing 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 wide framed aircraft. Space is required for all functional elements of a wide framed aircraft operational squadron, including Ops/AMU management support, briefing/debriefing, flight planning, training and testing, flying/ground safety, tool rooms, mobility office, scheduling, standardization/evaluation, bench stock, locker rooms, and a technical 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 standard. These effeciencies are essential to maintain mission tasking rates in the Air Mobility Command.
CURRENT SITUATION: There are no adequate facilities to support wide framed consolidated Sq Ops/AMU operations at McGuire AFB. Currently there are four operations and four maintenance facilities in use. These facilities provide only fifty percent of the required square footage to

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
SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT FACILITY	PTFL953010

support squadron operations/AMU functions. Squadron personnel currently operate in overcrowded, improperly configured facilities. Other inefficiencies include lack of space for mission planning and briefings, inadequate space to allow storage and issue of parts from a single location, administration, flying clothing and equipment, deteriorated electrical and mechanical systems.

IMPACT IF NOT PROVIDED: Operations, maintenance, and support personnel will remain dispersed in severely undersized buildings and will never develop the cohesiveness necessary to become an efficient and effective operational organization. Ultimately, these factors, in conjunction with the substandard working environment, will degrade daily operations and also adversely affect the efficiency of the squadron to generate and execute mission sorties in an efficient and effective manner to sustain "Global Reach-Global Power".

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 critieria/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 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:	1,500
e. Authorization Included In Following Program: (FY 1998)	3,950
f. Planned In Next Three Program Years:	3,800
g. Remaining Deficiency:	153,000
h. Grand Total:	628,891

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
832-266	ADD TO SANITARY SEWER SYSTEM	21,500 LF	1,500	TURN KEY	
		TOTAL:	1,500		

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

141-453	BASE OPERATIONS	17,550 SF	2,350	
179-511	FIRE TRAINING FACILITY	LS	1,600	
		TOTAL:	3,950	

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

880-221	ADD TO AND ALTER AUTO FIRE DETECTION SYSTEM	LS	3,800

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.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	5,750
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
KIRTLAND AIR FORCE BASE, NEW MEXICO	ADD TO SANITARY SEWER SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.80.56	832-266	MHMV943003	1,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO SANITARY SEWER SYSTEM	LF	21,500	33	710
SUPPORTING FACILITIES				555
MANHOLES	EA	76	3,421	(260)
REMOVE SEPTIC TANKS & LEACHING FIELDS	LS			(150)
SOIL REMEDIATION	LS			(100)
SITE IMPROVEMENTS	LS			(15)
PAVEMENTS	LS			(20)
TIE TO CITY SEWER	LS			(10)
SUBTOTAL				1,265
CONTINGENCY (10%)				127
TOTAL CONTRACT COST				1,392
SUPERVISION, INSPECTION AND OVERHEAD (6%)				84
TOTAL REQUEST				1,476
TOTAL REQUEST (ROUNDED)				1,500

10. Description of Proposed Construction: Install a new sanitary sewer line to facilities located south of the runway. Includes excavation, backfill, pavement repairs, manholes, removal of septic tanks/leach fields, and necessary support.

11. REQUIREMENT: As required.

PROJECT: Add to a sanitary sewer system. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance requirement. A sanitary sewer system replacing the existing septic systems is required to convey wastes to a connection point with the city of Albuquerque for treatment. The Ground-Water Protection Policy and Action Plan for the City of Albuquerque and Bernalillo County requires the base to eliminate conventional septic tank systems which could potentially contaminate the ground-water entering the only aquifer serving the area.

CURRENT SITUATION: Eleven septic tanks and leach fields serving the industrial activities south of the runway are over thirty years old. In view of past practices of disposing chemicals through these systems, which is in violation of regulation 40 CFR 265, the septic tanks have been identified by EPA Region 6 as solid waste management units. They are being investigated as part of the base's Resource Conservation and Recovery Act (RCRA) permit and are included in the Appendix III work plan scheduled for delivery to the EPA in July 1995. Results of this investigation could lead to the EPA ordering closure of the leach fields. In addition, the Ground-Water Protection Policy and Action Plan precludes development of new septic fields in the area since the base is over a sole-source aquifer for the metropolitan basin. Engineering studies conclude that the existing fields will exceed their useful life within the next five years, and the most environmentally sound solution is to connect

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
ADD TO SANITARY SEWER SYSTEM	MHMV943003

the facilities to the city regional system similar to the remainder of the base. A base trunk line to the city system traverses the base at the east end of this series of leach fields; this project will tie the new gravity collection system to that line ahead of the metering station.

IMPACT IF NOT PROVIDED: Within the next five years, the existing leach fields will have reached their capacity. There will be no system in-place to handle industrial and sanitary wastes, and enforcement action can be expected if Resource Conservation and Recovery Act (RCRA) listed chemicals are found in the drain fields or septic tanks, with potential fines of up to $25,000 per day. Continued use of the septic tanks will also violate the City/Ground-Water Protection Policy and Action Plan when it becomes law.

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 PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA 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	552	3801	375						71	4,799
b. End FY 2001	550	3779	265						71	4,665

7. INVENTORY DATA ($000)

a. Total Acreage: (1,913)	
b. Inventory Total As Of: (30 SEP 95)	112,804
c. Authorization Not Yet In Inventory:	37,610
d. Authorization Requested In This Program:	7,650
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	86,800
h. Grand Total:	244,864

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	DORMITORY	114 PN	4,500		
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS	1,000		
832-266	UPGRADE SANITARY SEWER SYSTEM	LS	2,150		
		TOTAL:	7,650		

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 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	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96C	721-312	TMKH963006	4,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (114 PN)				3,240
DORMITORY	SF	40,500	78	(3,159)
AUTOMATIC SPRINKLER PROTECTION	SF	40,500	2	(81)
SUPPORTING FACILITIES				825
PAVEMENTS	LS			(225)
UTILITIES	LS			(150)
SITE IMPROVEMENTS	LS			(60)
DEMOLITION	SF	21,700	18	(390)
SUBTOTAL				4,065
CONTINGENCY (5%)				203
TOTAL CONTRACT COST				4,268
SUPERVISION, INSPECTION AND OVERHEAD (6%)				256
TOTAL REQUEST				4,524
TOTAL REQUEST (ROUNDED)				4,500

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, concrete frame facility, insulated maintenance free exterior masonry walls, sound attenuation, pitched standing seam metal roof. Include room-bath-room modules, laundries, storage and lounge area and all utility support. Associated work includes expansion of the pedestrian plaza and parking areas and construction of recreation areas. Air Conditioning: 150 Tons. Grade Mix: 114 E1-E4.

11. REQUIREMENT: As required.
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A major Air Force objective provides 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. Additionally, a recent air installation compatibility utilization zone study, accomplished on the composite wing mission at Pope, reflects noise levels in the airman community area exceed the recommended level for residential housing. This dormitory will provide the required noise attenuation features to insure a quality living space. Construction of a pedestrian plaza will link the dormitories with the community service area. Estimated intended utilization is 114 personnel: 114 E1-E4, with a maximum utilization of 114 personnel.
CURRENT SITUATION: The base does not have sufficient facilities to accommodate the unaccompanied enlisted personnel housing requirement. With the increase in manpower from the new wing, the shortfall will be even greater. The facilities that do exist are substandard. The

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
DORMITORY	TMKH963006

buildings were built in the 1960s with no major upgrades since then. The floor plan incorporates central latrines which do not meet DoD standards. Pope is a small base in terms of real estate and base development has forced the siting of industrial functions adjacent to the existing dormitory complex. The existing site is dislocated from all the services our airmen need, forcing them to drive or find rides to take advantage of these services. The existing dormitories do not have noise attenuation features. While these features may be added in renovation, the orientation of the building to the flight line noise source cannot be changed with renovation. New construction will allow proper orientation of the facility on the site and the incorporation of the latest noise reduction measures to minimize noise effects.

IMPACT IF NOT PROVIDED: Adequate living quarters which provide a level of privacy required for today's airman will not be available at Pope AFB. Morale will decline and retention will be difficult at best.

ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. Fire protection systems for this project meet new standards established in MIL-HNBK 1008B, "Fire Protection Facilities". Cost for fire protection is shown separately since this new standard is not yet reflected in the OSD approved unit cost factor for dormitories. 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	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)
2.74.56C	832-266	TMKH973003	2,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE SANITARY SEWER SYSTEM	LS			1,626
SANITARY SEWER LINES	LF	22,000	49	(1,078)
SLIP SANITARY SEWER LINES	LF	12,000	39	(468)
REPAIR MANHOLES	EA	52	1,540	(80)
SUPPORTING FACILITIES				200
SITE WORK		1	200,000	(200)
SUBTOTAL				1,826
CONTINGENCY (10%)				183
TOTAL CONTRACT COST				2,009
SUPERVISION, INSPECTION AND OVERHEAD (6%)				121
TOTAL REQUEST				2,130
TOTAL REQUEST (ROUNDED)				2,150

10. Description of Proposed Construction: Replace deteriorated sections of existing sewer lines and slip line as required, eliminate cross-connections between sanitary sewer and storm drainage and replace/repair degraded manholes. Site work to include pavement replacement, shoring and other necessary support.

11. REQUIREMENT: 148,000 LS ADEQUATE: 114,000 LS
SUBSTANDARD: 34,000 LS

PROJECT: Upgrade sanitary sewer system. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Pope AFB must comply with the Clean Water Act (CWA) as administered through the National Pollution Discharge Elimination Discharge System (NPDES) permit issued by North Carolina Department of Environment, Health and Natural Resources Division of Environmental Management to Fort Bragg. Amendments to CWA and the anti-backsliding provision of NPDES make it increasingly difficult for Pope AFB and Fort Bragg to maintain compliance. Pope AFB and Fort Bragg must comply with more stringent permit requirements by 1997. Pope AFB must comply with Fort Bragg Pretreatment Standards by 1997. Repair sanitary sewer mains to maintain structural integrity of the sewer system for dependable transfer of the wastewater from the source to the treatment works.

CURRENT SITUATION: The base has excessive infiltration/inflow. This has been documented by greatly increased flows at the Fort Bragg wastewater treatment plant in conjunction with rain events. The infiltration/inflow on Pope AFB is being documented by the Sewer System Evaluation System to be completed in September 1994. Excesssive infiltration/inflow will contribute to violation of the NPDES permit and Fort Bragg Pretreatment Standards. The situation will only degrade over time.

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

IMPACT IF NOT PROVIDED: Enforcement actions will increase as it becomes more difficult for Pope AFB to maintain compliance with the CWA. Environmental noncompliance strains relations with the host community, creates an environmental theat and can lead to fines and penalties up to $25,000 per day.

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 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	455	3625	569				1	6	130	4,786
b. End FY 2001	567	4251	505				1	6	130	5,460

7. INVENTORY DATA ($000)

a. Total Acreage: (4,115)	
b. Inventory Total As Of: (30 SEP 95)	196,480
c. Authorization Not Yet In Inventory:	19,110
d. Authorization Requested In This Program:	12,900
e. Authorization Included In Following Program: (FY 1998)	1,000
f. Planned In Next Three Program Years:	900
g. Remaining Deficiency:	45,140
h. Grand Total:	275,530

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	F-15 SQUADRON OPERATIONS/AMU/ ACADEMIC FACILITY	48,000 SF	6,300	SEP 93	DEC 96
171-212	F-15 ADD TO SIMULATOR TRAINING SYSTEM SUPPORT CENTER	26,000 SF	6,600	SEP 93	DEC 95
		TOTAL:	12,900		

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

730-142	ADD TO FIRE STATION	5,500 SF	1,000
		TOTAL:	1,000

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

411-135	JET FUEL STORAGE	4,000 SY	900

10. Mission or Major Functions: A flying wing with four F-15 fighter squadrons, one of which conducts F-15E initial qualification training; and a KC-10 air refueling squadron (scheduled to depart with timing to be determined); and an Air Force Reserve air refueling wing with one KC-135 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-15 SQUADRON OPERATIONS/AMU/ ACADEMIC FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.71.34	141-753	HACC953039	6,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-15 SQUADRON OPERATIONS/AMU/ACADEMIC FACILITY	SF	48,000		4,806
SQUADRON OPERATIONS	SF	22,000	105	(2,310)
AIRCRAFT MAINTENANCE UNIT	SF	8,000	105	(840)
ACADEMIC FACILITY	SF	18,000	92	(1,656)
SUPPORTING FACILITIES				860
UTILITIES	LS			(280)
PAVEMENTS	LS			(280)
SITE IMPROVEMENTS	LS			(300)
SUBTOTAL				5,666
CONTINGENCY (5%)				283
TOTAL CONTRACT COST				5,949
SUPERVISION, INSPECTION AND OVERHEAD (6%)				357
TOTAL REQUEST				6,306
TOTAL REQUEST (ROUNDED)				6,300

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, reinforced masonry walls, steel frame, standing seam metal roof system, site improvements, and all necessary support.
Air Conditioning: 100 Tons.

11. REQUIREMENT: As required.
PROJECT: Construct an F-15 squadron operations/aircraft maintenance unit (AMU) facility and academic facility. (New Mission)
REQUIREMENT: An adequate squadron operations and aircraft maintenance unit facility is required to plan, brief, and critique student pilots; direct flight operations; direct aircraft maintenance functions; and to provide space for aircrew life support inspection, servicing, and storage. An academic facility must be provided for the adequate academic instruction of the students in the F-15E training squadron. The facility must be conducive to instruction and learning by having quiet and properly configured classrooms for flight training instruction. Squadron operations/aircraft maintenance unit includes chemical/biological protection, emergency generator, briefing room, flight planning operations, life support and support spaces.
CURRENT SITUATION: The F-15E field training unit (FTU) at Luke AFB is relocating to Seymour-Johnson AFB under the F-16 training consolidation initiative at Luke AFB. The first increment of the F-15E FTU arrives in FY95/1. The final increment will arrive in FY95/2. The operations support squadron will be relocated from permanent facilities into leased trailers to provide an interim facility for the FTU squadron and academics. Also, leased trailers will be required to supplement the FTU's existing interim facility. This beddown adds one additional F-15 fighter squadron to Seymour-Johnson. The base has no facilities which can be used

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-15 SQUADRON OPERATIONS/AMU/ ACADEMIC FACILITY	HACC953039

for the operations functions of this additional F-15E squadron, nor is there space to house the academic function.

IMPACT IF NOT PROVIDED: Continuing to work out of interim and inadequate facilities will jeopardize the quality of F-15E student pilot training. Pilots from this one-of-a-kind schoolhouse will be sent to combat units with less than optimum training. The combat capability of the gaining units will be degraded.

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 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	4. PROJECT TITLE
SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA	F-15 ADD TO SIMULATOR TRAINING SYSTEM SUPPORT CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.71.34	171-212	HACC953042	6,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-15 ADD TO SIMULATOR TRAINING SYSTEM SUPPORT CENTER	SF	26,000	130	3,380
SUPPORTING FACILITIES				2,530
UTILITIES	LS			(1,055)
PAVEMENTS	LS			(760)
SITE IMPROVEMENTS	LS			(715)
SUBTOTAL				5,910
CONTINGENCY (5%)				296
TOTAL CONTRACT COST				6,206
SUPERVISION, INSPECTION AND OVERHEAD (6%)				372
TOTAL REQUEST				6,578
TOTAL REQUEST (ROUNDED)				6,600

10. Description of Proposed Construction: Addition of concrete foundation and floor slab, structural steel framework, masonry walls with maintenance-free exterior finish to match existing, HVAC and electrical system to support simulator equipment. Includes area for computer, disk and tape storage, power conditioning, electronic security, and software maintenance. Includes pavements, utilities and all necessary support. Air Conditioning: 300 Tons.

11. REQUIREMENT: 38,350 SF ADEQUATE: 12,350 SF SUBSTANDARD: 0
PROJECT: Add to an F-15 simulator training system support center. (New Mission)
REQUIREMENT: An adequately sized facility is required to house the F-15E flight simulator equipment. Modern state-of-the-art equipment is needed to enhance all phases of aircrew training including initial qualification, proficiency maintenance, and mission procedures. A facility is required for the training system support center where software can be developed and tested for all training devices in support of the F-15E weapons system. The facility must provide space for installation of the equipment flight simulator which is being relocated from Luke AFB in conjunction with the move of the pilot training school. The facility addition is also needed for high value training devices for testing newly developed software and for the evaluation of test results. Additionally, an area is required for training software technicians. The space will be a combination of computer/simulator laboratory space and adjacent development and administrative areas.
CURRENT SITUATION: The F-15E field training unit (FTU) will arrive between the first and second quarters of fiscal year 1995. The simulator and training system support center (TSSC), currently at Luke AFB, cannot

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-15 ADD TO SIMULATOR TRAINING SYSTEM SUPPORT CENTER	HACC953042

be relocated with the aircraft because adequate facilities are not available at Seymour-Johnson AFB. The base currently has one F-15E simulator to support the on-going training requirements for three combat squadrons. An additional simulator is required to support the training squadron. One simulator cannot adequately support the training requirements for all four squadrons. As an interim, the existing simulator must be used for training to the maximum extent possible by extending the training day and allowing only minimum downtime for maintenance and system upgrades. Even by maximizing the training day, sufficient time will not be available for all required training hours. Until the TSSC is completed, the base will require the use of interim modular facilities for contractor personnel and shared use of the simulator training time. This interim operation will result in training programs lagging behind technical improvements to the weapons systems.
IMPACT IF NOT PROVIDED: The existing simulator will run in excess of 19 hours per day to provide training to the FTU and minimum training to the combat squadrons. But even at this usage level, the recurring training requirement for the combat squadrons will not be met. Also, this schedule will not allow time for the anticipated maintenance requirements associated with the increase in operational usage. The long term impact will be less proficient students and combat pilots.
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 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	718	3886	464				1	2	206	5,277
b. End FY 2001	712	3750	410				1	2	206	5,081

7. INVENTORY DATA ($000)

a. Total Acreage: (6,374)	
b. Inventory Total As Of: (30 SEP 95)	329,635
c. Authorization Not Yet In Inventory:	12,900
d. Authorization Requested In This Program:	6,500
e. Authorization Included In Following Program: (FY 1998)	6,400
f. Planned In Next Three Program Years:	14,900
g. Remaining Deficiency:	39,550
h. Grand Total:	409,885

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	40,900 SF	6,500		
		TOTAL:	6,500		

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

690-000	PROCUREMENT FACILITY	8,500 SF	1,400		
831-155	INDUSTRIAL WASTEWATER TREATMENT FACILITIES	LS	5,000		
		TOTAL:	6,400		

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 squadrons with HH-1 helicopters).

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	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	6,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FACILITY	SF	40,900	120	4,908
SUPPORTING FACILITIES				895
UTILITIES	LS			(360)
PAVEMENTS	LS			(165)
SITE IMPROVEMENTS	LS			(210)
ELEVATOR	EA	1	100,000	(100)
DEMOLITION	SF	2,900	21	(60)
SUBTOTAL				5,803
CONTINGENCY (5%)				290
TOTAL CONTRACT COST				6,093
SUPERVISION, INSPECTION AND OVERHEAD (6%)				366
TOTAL REQUEST				6,459
TOTAL REQUEST (ROUNDED)				6,500

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, demolition, and necessary support.
Air Conditioning: 80 Tons.

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 comply with Air Force guidance to build Objective Wing 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 26 additional KC-135s in the 3rd quarter of FY94. A total of 48 KC-135s will be in place by the 4th quarter of FY95. 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/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 2,900 square feet 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 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	3688	3043	13804	342			92	110	16	22,095
b. End FY 2001	3078	2952	11051	342			92	110	16	18,641

7. INVENTORY DATA ($000)

a. Total Acreage: (8,245)	
b. Inventory Total As Of: (30 SEP 95)	854,606
c. Authorization Not Yet In Inventory:	76,670
d. Authorization Requested In This Program:	19,400
e. Authorization Included In Following Program: (FY 1998)	4,750
f. Planned In Next Three Program Years:	11,900
g. Remaining Deficiency:	150,500
h. Grand Total:	1,117,826

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	36,000 SF	7,500	SEP 93	MAR 94
311-173	RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE IV	94,500 SF	9,900		
871-183	UPGRADE STORM DRAINAGE SYSTEM	LS	2,000		
		TOTAL:	19,400		

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

411-135	FUEL CONTAINMENT DIKES	LS	600	TURN KEY
821-116	UPGRADE HEAT PLANT EMISSION CONTROL SYSTEM	LS	4,150	
		TOTAL:	4,750	

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

171-851	AFIT OPERATIONS COMPLEX	82,500 SF	9,400
610-127	BASE ENGINEER ADMINISTRATION	26,000 SF	2,500

10. Mission or Major Functions: Headquarters Air Force Materiel Command; an air base wing with C-21 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-141 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	7,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER ENGINEERING				
AND RESEARCH LABORATORY	SF	36,000		4,890
ADDITION	SF	35,000	135	(4,725)
ALTERATION	SF	1,000	50	(50)
PRE-WIRED WORKSTATIONS	EA	25	4,600	(115)
SUPPORTING FACILITIES				1,825
UTILITIES/PAVEMENTS	LS			(600)
SITE IMPROVEMENTS	LS			(325)
DEMOLITION	SF	50,000	12	(600)
COMMUNICATION/EMCS	LS			(300)
SUBTOTAL				6,715
CONTINGENCY (5%)				336
TOTAL CONTRACT COST				7,051
SUPERVISION, INSPECTION AND OVERHEAD (6%)				423
TOTAL REQUEST				7,474
TOTAL REQUEST (ROUNDED)				7,500

10. Description of Proposed Construction: Poured concrete foundation and floor slab, steel beam and column frame and metal deck/built-up roof, concrete and masonry walls. Alter existing facility to accommodate new addition. Provide 25 prewired workstations. Demolish one wing of the existing engineering and research facility.
Air Conditioning: 393 Tons.

11. REQUIREMENT: 567,403 SF ADEQUATE: 250,140 SF
SUBSTANDARD: 286,213 SF
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 grants approximately 260 Masters and 36 PhDs a year. AFIT requires a facility for the faculty and student educational and research effort in the areas of 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 is surrounded by an administrative area. These processes involve the use

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

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.

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 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, 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	4. PROJECT TITLE
WRIGHT-PATTERSON AIR FORCE BASE, OHIO	RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE IV

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.06	311-173	ZHTV963304	9,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE IV	LS			6,551
RENOVATE FACILITY	SF	94,500	49	(4,631)
PREWIRED WORK STATIONS	EA	600	3,200	(1,920)
SUPPORTING FACILITIES				1,920
UTILITIES	LS			(300)
SITE IMPROVEMENTS	LS			(170)
ASBESTOS REMOVAL	LS			(650)
DEMOLITION	SF	80,000	10	(800)
SUBTOTAL				8,471
CONTINGENCY (10%)				847
TOTAL CONTRACT COST				9,318
SUPERVISION, INSPECTION AND OVERHEAD (6%)				559
TOTAL REQUEST				9,877
TOTAL REQUEST (ROUNDED)				9,900

10. Description of Proposed Construction: Interior renovation includes asbestos removal, relocation of interior non-load bearing walls, replacement of building utility systems, fire protection, and interior finishes. Exterior renovation includes roof replacement, utilities upgrade, and historical preservation measures. Includes demolition of four buildings.
Air Conditioning: 265 Tons.

11. REQUIREMENT: 1,125,100 SF ADEQUATE: 387,000 SF
SUBSTANDARD: 1,618,200 SF
PROJECT: Renovate an acquisition management facility, phase 4. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A secure, modern, flexible office complex is required to consolidate acquisition management functions in an efficient, professional environment. Revitalization of Aeronautical Systems Center (ASC) facilities is needed to correct serious building and infrastructure shortcomings. This phased program includes complete revitalization of existing buildings, demolition, and replacement construction including infrastructure upgrade. ASC activities must be consolidated in modern facilities equipped with the latest computer and communications equipment for maximum economy. The total net floor space must be reduced for more efficient use of space.
CURRENT SITUATION: The facility to be upgraded was constructed in 1930 and later modified to accommodate the current mission. The building is structurally sound but has many deficiencies including energy inefficient heating, cooling, and lighting systems, roof leaks, rest rooms which are in disrepair, and asbestos ceilings and insulation. The facility cannot

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
RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE IV	ZHTV963304

support modern engineering requirements. Numerous interior partitions contribute to an inefficient layout which wastes floor space and hampers work force efficiency. The present layout of the facility inhibits individual and project team interaction which is vital to the accomplishment of the mission. Completion of this project will allow demolition of four buildings totalling 80,000 SF. This project will complete the fourth phase of a nine-phase program to replace or upgrade the acquisition management facilities. Phase I (FY92) provided 107,000 SF of new construction ($20.0 million); phase IIA (FY94) included rehabilitation of a 62,000 SF building, and construction of a 38,000 SF utilities and communications vault ($12.85 million); phase IIB (FY94) provided 108,000 SF of new construction ($14.4 million); and phase III (FY95) provides 108,000 SF of new construction ($18.3 million).
IMPACT IF NOT PROVIDED: Complex weapon system integration will be increasingly difficult to attain; a fragmented work force will continue to operate in a larger building than required for a properly configured building; work efficiency will not be optimal; the roof will continue to leak and operating costs will continue to escalate; bringing new technology into production will incur excessive time and costs.
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, revitalization of this facility was found to be the most cost efficient over the life of the project. This facility is within the Wright Field Historic District and any exterior renovations must meet Department of the Interior standards for historic facilities.

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	UPGRADE STORM DRAINAGE SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.80.56	871-183	ZHTV923203	2,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE STORM DRAINAGE SYSTEM	LS			1,725
ELIMINATION OF CROSS CONNECTIONS	LS			(1,300)
SHEDS AND BERMS	LS			(375)
VEGETATION AND SWALES	LS			(50)
SUBTOTAL				1,725
CONTINGENCY (10%)				173
TOTAL CONTRACT COST				1,898
SUPERVISION, INSPECTION AND OVERHEAD (6%)				114
TOTAL REQUEST				2,012
TOTAL REQUEST (ROUNDED)				2,000

10. Description of Proposed Construction: Install pollution control structures to channel and divert storm water collection system and correct sanitary and storm sewer cross connections. Provide vegetation to prevent erosion of existing drainange, watersheds and berms. Also provide controls to reduce suspended solids in runoff.

11. REQUIREMENT: As required.

PROJECT: Upgrade storm drainage system. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance requirement. This project is necessary to comply with Clean Water Act requirements under 40 CFR 122.26 for storm water discharge. A storm water permit was issued in 1994 and the base must comply with their Storm Water Pollution Prevention Plan by 1997. The base is also required to certify that non-storm water discharges are not connected to the storm drainage system. Corrective actions are necessary to eliminate these non-storm water discharges and to provide pollution control structures to direct runoff from coming into contact with contaminates.

CURRENT SITUATION: The existing storm drainage system does not meet the requirements of 40 CFR 122. The existing storm water drainage system receives storm water runoff from the flight line and other industrial areas on base and discharges through numerous discharge points to streams which traverse the base and discharge into the Mad River. There are presently no measures to prevent potential pollutant sources from mixing with storm water runoff and entering discharge points leading to surface waters. There are non-storm water discharges connected to the stormwater system which violate pending storm water National Pollution Discharge Elimination System (NPDES) permit. The base also frequently exceeds suspended solid limits for the current NPDES permit, and a method of

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
UPGRADE STORM DRAINAGE SYSTEM	ZHTV923203

control must be provided.

IMPACT IF NOT PROVIDED: The base will continue to exceed discharge permit limits and be out of compliance with EPA storm water regulations. The continuous violation of these regulations have the potential for fines of up to $25,000 per day and will create 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".

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

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONS COST INDEX
ALTUS AIR FORCE BASE, OKLAHOMA	AIR EDUCATION AND TRAINING 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	284	2611	488	322	239		1	6	72	4,023
b. End FY 2001	401	1767	1633	322	239		1	6	72	4,441

7. INVENTORY DATA ($000)

a. Total Acreage: (4,698)	
b. Inventory Total As Of: (30 SEP 95)	186,237
c. Authorization Not Yet In Inventory:	77,760
d. Authorization Requested In This Program:	4,000
e. Authorization Included In Following Program: (FY 1998)	6,500
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	13,560
h. Grand Total:	288,057

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
740-884	CHILD DEVELOPMENT CENTER COMPLEX	29,000 SF	4,000	AUG 95	MAY 96
		TOTAL:	4,000		

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

149-962	CONTROL TOWER	1 EA	2,550
411-135	IMPROVE JET FUEL STORAGE	LS	3,950
		TOTAL:	6,500

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

10. Mission or Major Functions: An air mobility wing with one C-5 squadron and one C-141 squadron responsible for training all C-5 and C-141 aircrews; and a KC-135 air refueling squadron responsible for training KC-135 aircrews; also designated to be the primary base for training C-17 aircrews.

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
ALTUS AIR FORCE BASE, OKLAHOMA	CHILD DEVELOPMENT CENTER COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.57.96	740-884	AGGN903005	4,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CHILD DEVELOPMENT CENTER COMPLEX	SF	29,000	96	2,784
SUPPORTING FACILITIES				800
UTILITIES	LS			(200)
PAVEMENTS	LS			(150)
SITE IMPROVEMENTS	LS			(125)
SPECIAL FOUNDATION	LS			(200)
COMMUNICATIONS SUPPORT	LS			(125)
SUBTOTAL				3,584
CONTINGENCY (5%)				179
TOTAL CONTRACT COST				3,763
SUPERVISION, INSPECTION AND OVERHEAD (6%)				226
TOTAL REQUEST				3,989
TOTAL REQUEST (ROUNDED)				4,000

10. Description of Proposed Construction: Construct a child development center complex consisting of multiple facilities. Concrete footings, foundation, and floor slab, masonry walls, steel joists, standing seam metal roof, utilities, and necessary support.
Air Conditioning: 95 Tons.

11. REQUIREMENT: 29,000 SF ADEQUATE: 0 SUBSTANDARD: 9,938 SF
PROJECT: Construct a child development center complex. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. These facility requirements are in accordance with the military Child Care Act of 1989. Child development services are required for 350 dependent children. A properly sized and functionally configured child development center complex is required to provide supervised care and development experience for children ages six weeks through twelve years, including all preschool activities. Multiple facilities are required to comply with the DoD directive establishing the maximum number of children 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.
CURRENT SITUATION: Presently, services are provided in one substandard permanent facility and one interim facility. Existing facilities can accommodate a maximum of 150 children. Daily attendance at the center averages 150, or 100%. At the present time, 65 children are on the waiting list. The actual number of children not being accommodated is higher because many parents do not bother placing their children on the

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

3. INSTALLATION AND LOCATION	
ALTUS AIR FORCE BASE, OKLAHOMA	
4. PROJECT TITLE	5. PROJECT NUMBER
CHILD DEVELOPMENT CENTER COMPLEX	AGGN903005

list once they learn the required waiting period. This project will result in a child development center complex that will serve a total of 350 children. The permanent facility does not have a sufficient number of classrooms, adequate kitchen/food preparation space, sleeping facilities, nurseries, and indoor/outdoor play areas. The existing facilities have health and safety hazards because toddlers cannot be closely supervised. The interim facility was provided in FY94 to meet the immediate needs after other temporary facilities were demolished. Expanded program requirements cannot be provided and the increased demand for child care cannot be met due to lack of space. Homecare is at maximum usage and off-base facilities are extremely limited. Further, off-base day care facilities, on average, are twice as expensive as on-base facilities placing a financial hardship on assigned personnel. The interim facility will be disposed of upon completion of this project.

IMPACT IF NOT PROVIDED: Lack of quality child care contributes to employee absenteeism, 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 either quit work or 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. An economic analysis has been prepared comparing alternatives of new construction, add to and alter, and status quo operation. Based on the present value 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
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	1430	5995	11678				231	961	770	22,065
b. End FY 2001	1277	5952	10440				231	961	770	20,631

7. INVENTORY DATA ($000)

a. Total Acreage: (4,966)	
b. Inventory Total As Of: (30 SEP 95)	700,311
c. Authorization Not Yet In Inventory:	62,472
d. Authorization Requested In This Program:	16,580
e. Authorization Included In Following Program: (FY 1998)	15,100
f. Planned In Next Three Program Years:	43,000
g. Remaining Deficiency:	124,100
h. Grand Total:	961,563

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 FACILITY (DBOF)	168,000	SF	8,300		
871-183	UPGRADE STORM DRAINAGE SYSTEM		LS	2,880	TURN KEY	
880-232	B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM		LS	5,400		
		TOTAL:		16,580		

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

123-335	VEHICLE FUELING STATION	8	OL	850
124-000	UNDERGROUND FUEL STORAGE TANKS		LS	8,000
211-157	EQUIPMENT STAGING FACILITY	9,000	SF	650
610-711	AWAC MISSION SUPPORT CENTER	68,900	SF	5,600
		TOTAL:		15,100

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

210-944	ADD TO AND ALTER BASE ENGINEER COMPLEX PHASE II	98,500	SF	7,200
211-152	DEPOT PLANT MAINTENANCE SHOP	30,500	SF	2,300
211-254	FUEL CONTROL ASSEMBLY OVERHAUL FACILITY	86,500	SF	13,200
610-287	ENGINEERING AND INSTALLATION FACILITY	66,000	SF	8,800
880-000	FIRE & OTHER ALARM SYSTEMS	230,000	SF	1,000

10. Mission or Major Functions: Oklahoma City Air Logistics Center which is responsible for logistics management, support, and depot-level maintenance of E-3, 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).

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			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:	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 FACILITY (DBOF)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.96	214-425	WWYK953005	8,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED VEHICLE MAINTENANCE FACILITY (DBOF)	SF	168,000		5,724
VEHICLE MAINTENANCE SHOP	SF	52,000	90	(4,680)
ALTER DEPOT METALS SHOP	SF	116,000	9	(1,044)
SUPPORTING FACILITIES				1,710
UTILITIES	LS			(350)
PAVEMENTS	LS			(225)
SITE IMPROVEMENTS	LS			(100)
DEMOLITION	SF	121,000	5	(605)
ASBESTOS ABATEMENT	LS			(430)
SUBTOTAL				7,434
CONTINGENCY (5%)				372
TOTAL CONTRACT COST				7,806
SUPERVISION, INSPECTION AND OVERHEAD (6%)				468
TOTAL REQUEST				8,274
TOTAL REQUEST (ROUNDED)				8,300

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. Also includes building demolition, associated asbestos abatement and necessary support.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 168,000 SF ADEQUATE: 0 SUBSTANDARD: 289,000 SF
PROJECT: Construct a consolidated vehicle maintenance facility. (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 utilities 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 depot plant supporting structures. Also 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 wood 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. The roofs of these metals shops leak and the buildings waste energy

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 FACILITY (DBOF)	WWYK953005

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, this facility is adequate for use as a consolidated metals and fabrication shop. Completion of this project will allow demolition of one building totalling 121,000 square feet.
IMPACT IF NOT PROVIDED: The opportunity to support downsizing efforts and increase production efficiency will be lost. Maintenance and repair of an outdated wooden warehouse in the airfield clear zone will continue. Separate metals shops will continue to duplicate operations.
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.

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	UPGRADE STORM DRAINAGE SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.80.56	871-183	WWYK963049	2,880

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE STORM DRAINAGE SYSTEM	LS			2,415
AIRCRAFT DEICING PADS	EA	3	475,000	(1,425)
ELIMINATE CROSS CONNECTIONS	LS			(340)
ELIMINATE RUNOFF FROM INDUSTRIAL AREAS	LS			(650)
SUPPORTING FACILITIES				50
SITE IMPROVEMENTS	LS			(50)
SUBTOTAL				2,465
CONTINGENCY (10%)				247
TOTAL CONTRACT COST				2,712
SUPERVISION, INSPECTION AND OVERHEAD (6%)				163
TOTAL REQUEST				2,875
TOTAL REQUEST (ROUNDED)				2,880

10. Description of Proposed Construction: Improve storm water quality by constructing facilities for diversion and containment of aircraft deicing runoff, eliminating cross-connections between sanitary and storm drainage systems, and diverting storm water runoff from potentially contaminated areas and potential spill/leak areas. Also, regrade and seed drainage ditches and provide a basin for sediment control.

11. REQUIREMENT: As required.

PROJECT: Upgrade storm drainage system. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance requirement. This project is necessary to satisfy Clean Water Act requirements for controlling storm water runoff under 40 CFR 122.26. A storm water permit was issued in 1994 and the base is required to be in compliance with its Storm Water Pollution Prevention Plan by 1997. Tinker Air Force Base officials will be required to certify that, the base's storm water discharges do not contain pollutants from the industrial area activities storm water run off.

CURRENT SITUATION: Existing holding basin capacities are inadequate and cannot control potential runoff contamination before leaving the base. The base experiences difficulties meeting limits for suspended solids at storm water sampling points. There are floor drains in industrial facilities that are connected to the storm drainage system. The lack of berms allows drainage from potential spill sites in heavy industrial areas to discharge into various waterways and watersheds. Uncontrolled runoff from runway deicing operations currently enters streams, carrying pollutants associated with deicing chemicals (propylene glycol). Propylene glycol is nonflammable and nontoxic, but does increase the nitrogen and total suspended solid (TSS) water quality parameters which

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
UPGRADE STORM DRAINAGE SYSTEM	WWYK963049

are part of Tinker's NPDES permit requirements. Permitted levels for TSS parameters are exceeded during the winter months, and it is likely that it is caused by deicing operations. Control measures proposed for this plan are in accordance with the base's Storm Water Pollution Prevention Plan.
IMPACT IF NOT PROVIDED: Tinker Air Force Base will continue to risk contaminating its storm water runoff, thereby causing significant damage to the environment. Also, the base will continue to be out of compliance with EPA storm water regulations with potential fines of up to $25,000 per day per violation, as well as 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 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 formal 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	4. PROJECT TITLE
TINKER AIR FORCE BASE, OKLAHOMA	B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
1.11.27	880-232	WWYK963052	5,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 ADD TO HANGER FIRE PROTECTION SYSTEM	LS			3,800
SUPPORTING FACILITIES				810
UTILITIES	LS			(530)
PAVEMENT	LS			(100)
SITE IMPROVEMENTS	LS			(80)
ASBESTOS/LEAD PAINT ABATMENT	LS			(100)
SUBTOTAL				4,610
CONTINGENCY (10%)				461
TOTAL CONTRACT COST				5,071
SUPERVISION, INSPECTION AND OVERHEAD (6%)				304
TOTAL REQUEST				5,375
TOTAL REQUEST (ROUNDED)				5,400

10. Description of Proposed Construction: Convert sprinkler system to automatic aqueous film forming foam (AFFF) system, correct fire protection deficiencies, provide adequate lighting and explosion-proof fixtures, upgrade HVAC system and install vapor detection and extraction systems, and necessary support.

11. REQUIREMENT: As required.
PROJECT: Add to B-2 hanger fire protection system. (New Mission)
REQUIREMENT: A fire protection system is required to provide full coverage of the hanger bay and aircraft during maintenance of fueled aircraft. Depot maintenance on fueled aircraft such as B-52, KC-135, and E-3A needs to be performed in a facility with adequate fire suppression to reduce the potential for loss of aircraft, personnel, and facility. Additional precautions, such as explosion-proof fixtures and vapor detection/extraction systems are required for work on aircraft fuel cells.
CURRENT SITUATION: Workloads on existing mission aircraft must be relocated from an existing hangar to accommodate new B-2 workloads. This existing facility has an adequate AFFF system and is the only facility suitable for the B-2 workload. The proposed facility to which the remaining aircraft will relocate is currently equipped with a water sprinkler system and is not adequate when work is being performed on fueled aircraft. This project provides the necessary system additions to convert into a fuel cell repair dock, thereby allowing the current fuel cell repair facility to be used in support of the B-2 mission.
IMPACT IF NOT PROVIDED: Current mission aircraft would not be adequately protected against fire during depot maintenance. Alternatively, some depot maintenance workloads for B-2 aircraft could not be accomplished at Tinker AFB.

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
B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM	WWYK963052

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 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			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	550	3563	1096				4	26	40	5,279
b. End FY 2001	480	3016	1023				4	26	40	4,589

7. INVENTORY DATA ($000)

a. Total Acreage: (6,215)	
b. Inventory Total As Of: (30 SEP 95)	160,413
c. Authorization Not Yet In Inventory:	36,600
d. Authorization Requested In This Program:	35,100
e. Authorization Included In Following Program: (FY 1998)	5,500
f. Planned In Next Three Program Years:	14,300
g. Remaining Deficiency:	89,400
h. Grand Total:	341,313

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	13,200	MAR 93	SEP 94
141-753	C-17 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	30,900	SF	5,700		
211-153	C-17 ADD TO AND ALTER AIRCRAFT MAINTENANCE AND NDI SHOP	59,350	SF	4,600	APR 93	SEP 94
211-173	C-17 AIRCRAFT MAINTENANCE FACILITY	26,400	SF	5,800		
721-312	ALTER DORMITORY	152	PN	5,800		
		TOTAL:		35,100		

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

411-135	IMPROVE JET FUEL STORAGE		LS	1,500
851-147	IMPROVE ROAD		LS	4,000
		TOTAL:		5,500

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

130-142	FIRE/CRASH RESCUE STATION	4,700	SF	1,100
141-165	EXPLOSIVE ORDNANCE DISPOSAL	4,000	SF	400
442-758	REPAIR BASE SUPPLIES & EQUIP WHSE	194,000	SF	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 APRON/ HYDRANT FUELING SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.11.30	113-321	DKFX953030	13,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 ADD TO AND ALTER APRON/ HYDRANT FUELING SYSTEM	LS			8,060
HYDRANT FUELING SYSTEM/OUTLETS	OL	8	265,000	(2,120)
ADD TO APRON/AIRFIELD PAVEMENTS	SY	110,000	54	(5,940)
SUPPORTING FACILITIES				3,245
SITE IMPROVEMENTS	LS			(325)
DEMOLITION	SY	82,500	9	(745)
UTILITIES	LS			(175)
SOIL REMEDIATION	LS			(2,000)
SUBTOTAL				11,305
CONTINGENCY (10%)				1,131
TOTAL CONTRACT COST				12,436
SUPERVISION, INSPECTION AND OVERHEAD (6%)				746
TOTAL REQUEST				13,182
TOTAL REQUEST (ROUNDED)				13,200

10. Description of Proposed Construction: Demolition of existing refueling pumphouse No 3, piping, pavements and pumps. New constant pressure fueling system and piping between system and eight new fuel pits. Concrete pavement for aircraft parking, electrical grounding system, asphalt overlay of pavements, and site improvements. Removal and disposal of contaminated soil.

11. REQUIREMENT: 33 EA ADEQUATE: 25 EA SUBSTANDARD: 29 EA
PROJECT: Add to and alter C-17 apron/hydrant fueling system. (New Mission)
REQUIREMENT: Provide eight C-17 parking spaces on main parking ramp and an aircraft refueling system to support the beddown of the C-17 aircraft. The first C-17s arrived in 1993 and will total 40 by September 1998. This system will provide the refueling capacity to meet the short turn-around times necessary to meet mission requirements. Refueling requirements 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: Projects in FY92 and FY93 provided 15 and 10 parking/refueling spaces respectively. This project provides the final 8 spaces to beddown the C-17 aircraft. The existing main ramp/apron does not provide the total aircraft parking spaces required to support the C-17 beddown because of the increased wing tip clearance requirement for the C-17 aircraft. This portion of the refueling system is 29 years old, in poor condition, and cannot refuel more than one aircraft per lateral.
IMPACT IF NOT PROVIDED: The primary mission will be impaired. Aircraft

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

will be required to park/operate on a deteriorated ramp area creating a foreign object damage hazard. The current location of the refueling pits does not provide required aircraft wing tip clearances for the new aircraft. Without this project the requirements for refueling trucks and personnel will increase and unacceptable aircraft turn-around times 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 life cycle economic analysis has been performed comparing all reasonable options for accomplishing this project (status quo, add/alter, new construction, and all truck refueling). This analysis indicates the add/alter option, while having the highest initial investment cost, is the most economical option for 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
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	5,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FACILITY	SF	30,900	105	3,245
SUPPORTING FACILITIES				1,840
UTILITIES	LS			(575)
PAVEMENTS	LS			(450)
SITE IMPROVEMENTS	LS			(400)
DEMOLITION/ASBESTOS REMOVAL/DISPOSAL	SF	8,500	38	(325)
ELEVATOR	EA	1	90,000	(90)
SUBTOTAL				5,085
CONTINGENCY (5%)				254
TOTAL CONTRACT COST				5,339
SUPERVISION, INSPECTION AND OVERHEAD (6%)				320
TOTAL REQUEST				5,659
TOTAL REQUEST (ROUNDED)				5,700

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 protection, and necessary support.
Air Conditioning: 65 Tons.

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 comply with Air Force guidance to build Objective Wing 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 much larger unified squadrons and the larger C-17s. The squadron operations and maintenance personnel

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

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 8,500 SF 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	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	211-153	DKFX953031	4,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 ADD TO AND ALTER AIRCRAFT MAINTENANCE AND NDI SHOP	SF	59,350		3,591
ADDITION	SF	2,850	90	(257)
ALTERATION	SF	56,500	59	(3,334)
SUPPORTING FACILITIES				335
UTILITIES	LS			(135)
SITE IMPROVEMENTS	LS			(55)
INTERIM FACILITIES	LS			(145)
SUBTOTAL				3,926
CONTINGENCY (10%)				393
TOTAL CONTRACT COST				4,319
SUPERVISION, INSPECTION AND OVERHEAD (6%)				259
TOTAL REQUEST				4,578
TOTAL REQUEST (ROUNDED)				4,600

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.

11. REQUIREMENT: As required.

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 construction.

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. C-17 aircraft components are larger than similar C-141 components. Therefore, 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. There is no space for a corrosion media blaster which is necessary to support corrosion prevention maintenance operations. There are no available aircraft maintenance facilities that can be used to support C-17 maintenance requirements, because both aircraft will be maintained at Charleston for several years until C-141 drawdown occurs.

IMPACT IF NOT PROVIDED: Adequate aircraft maintenance and NDI operations cannot be performed on the new C-17 aircraft at this base. To meet the programmed utilization rates for the aircraft, required maintenance space must be made available.

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	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	5,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 AIRCRAFT MAINTENANCE FACILITY	SF	26,400	120	3,168
SUPPORTING FACILITIES				2,075
UTILITIES	LS			(225)
PAVEMENTS	LS			(735)
SITE IMPROVEMENTS	LS			(415)
DEMOLITION	SF	20,500	7	(145)
FIRE PROTECTION SYSTEM (AFFF)	LS			(300)
CONCRETE APRON	SY	650	108	(70)
ASPHALT APRON	SY	700	21	(15)
CONCRETE TAXIWAY	SY	12,000	14	(170)
SUBTOTAL				5,243
CONTINGENCY (5%)				262
TOTAL CONTRACT COST				5,505
SUPERVISION, INSPECTION AND OVERHEAD (6%)				330
TOTAL REQUEST				5,835
TOTAL REQUEST (ROUNDED)				5,800

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: 180,037 SF ADEQUATE: 45,637 SF SUBSTANDARD: 40,781 SF
PROJECT: Construct a high bay C-17 aircraft maintenance facility. (New Mission)
REQUIREMENT: An adequate 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 20,200 SF will be demolished upon completion of this project.
IMPACT IF NOT PROVIDED: Adequate aircraft maintenance operations cannot be performed on the new C-17 aircraft at this base. It will not be possible to meet the programmed utilization rates for the aircraft unless

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

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	4. PROJECT TITLE
CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	ADD TO AND ALTER DORMITORIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	721-312	DKFX973300	5,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER DORMITORIES (152 PN)	SF	64,700		4,343
ALTERATION	SF	54,500	73	(3,979)
ADDITION (BALCONIES)	SF	10,200	25	(255)
AUTOMATIC SPRINKLER PROTECTION	SF	54,500	2	(109)
SUPPORTING FACILITIES				630
UTILITIES	LS			(180)
SITE IMPROVEMENTS	LS			(285)
DEMOLITION/ASBESTOS REMOVAL/DISPOSAL	SF	54,500	3	(165)
SUBTOTAL				4,973
CONTINGENCY (10%)				497
TOTAL CONTRACT COST				5,470
SUPERVISION, INSPECTION AND OVERHEAD (6%)				328
TOTAL REQUEST				5,798
TOTAL REQUEST (ROUNDED)				5,800

10. Description of Proposed Construction: Add to and alter two, three-story domitories. Includes demolition of existing interior partitions and renovation to provide new room-bath-room modules, laundries, storage, lounge areas, asbestos removal/disposal, sloped roof, and new balconies with outside entrances. Seismic considerations, automatic fire protection, site improvements, and necessary support. Air Conditioning: 60 Tons. Grade Mix: 152 E1-E4.

11. REQUIREMENT: As required.
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. Estimated intended utilization is 152 personnel: E1-E4, with a maximum utilization of 152 personnel.
CURRENT SITUATION: There are currently not enough adequate dormitories to accommodate the unaccompanied enlisted personnel at this installation. The existing facilities to be upgraded were constructed in 1956. The interior hallways and central latrines do not provide any privacy. They 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 standards of seismic design and fire protection.
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	
CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	
4. PROJECT TITLE	5. PROJECT NUMBER
ADD TO AND ALTER DORMITORIES	DKFX973300

continue to be degraded. Excessive energy consumption and maintenance costs will continue to prevail if systems are not upgraded.
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, alteration was found to be the most cost effective over the life of the project. The Fire Protection System for this project meets new standards established in MIL-HNBK 1008B, Fire Protection for Facilities, published 15 January 1994. Cost for fire protection is shown separately since this new standard is not yet reflected in the OSD approved unit cost factor for dormitories.

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			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	710	4531	579				3		134	5,957
b. End FY 2001	709	4458	450				3		134	5,754

7. INVENTORY DATA ($000)

a. Total Acreage: (3,336)	
b. Inventory Total As Of: (30 SEP 95)	185,000
c. Authorization Not Yet In Inventory:	8,250
d. Authorization Requested In This Program:	7,510
e. Authorization Included In Following Program: (FY 1998)	3,800
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	80,660
h. Grand Total:	285,220

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	23,000	SF	3,760		
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES		LS	1,000		
832-266	UPGRADE SANITARY SEWER SYSTEM		LS	2,750		
		TOTAL:		7,510		

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

722-351	DINING FACILITY AND TROOP ISSUE WAREHOUSE	24,000	SF	3,800		
		TOTAL:		3,800		

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

10. Mission or Major Functions: Headquarters Ninth Air Force; a fighter wing which includes three F-16 squadrons, one A/OA-10 squadron, and an air control squadron.

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

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96C	130-835	VLSB953001	3,760

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SECURITY POLICE OPERATIONS	SF	23,000	88	1,979
SECURITY POLICE	SF	12,100	89	(1,077)
CANINE KENNEL	SF	1,850	58	(107)
OFFICE OF SPECIAL INVESTIGATIONS	SF	3,050	86	(262)
DEFENSE INVESTIGATIVE SERVICE	SF	1,000	88	(88)
SECURITY POLICE LOGISTICS	SF	5,000	89	(445)
SUPPORTING FACILITIES				1,400
UTILITIES	LS			(430)
DEMOLITION	SF	32,600	16	(520)
SITE IMPROVEMENTS	LS			(450)
SUBTOTAL				3,379
CONTINGENCY (5%)				169
TOTAL CONTRACT COST				3,548
SUPERVISION, INSPECTION AND OVERHEAD (6%)				213
TOTAL REQUEST				3,761
TOTAL REQUEST (ROUNDED)				3,760
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(150)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, masonry exterior and metal roof. Areas include an armory, training offices, classrooms, administration, cells, interview rooms, research center and kennel. Includes parking, site work, utilities, demolition, and necessary support. Three facilities will be demolished totaling 32,568 SF.
Air Conditioning: 60 Tons.

11. REQUIREMENT: 27,000 SF ADEQUATE: 4,000 SF SUBSTANDARD: 32,568 SF
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 provide effective command and control for all security operations, law enforcement, resource and personnel protection, and base information security functions. A consolidated centrally located facility is necessary to improve command and control, response times to emergency situations, and to support the entire base law enforcement, investigative functions, Defense Investigative Service (DIS), Office of Special Investigations (OSI), and security operations. Space is also required to house the Security Police Mobility Operations Center and the canine kennel.
CURRENT SITUATION: Security police functions are currently housed in five separate facilities. The security police operations and mobility storage are currently occupying two buildings which were originally constructed as airman dining halls in 1953 and 1958. The facilities are inadequate in functional layout to accommodate existing requirements. These two buildings are located in the middle of the enlisted dormitory area and constitute incompatible land use. Scattered facilities cause ineffective

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	VLSB953001

control and assignment of workforce, planning and coordination. OSI space requirements have increased which make their facility inadequate. DIS is in a facility separated from security police and OSI investigative functions, compounding coordination problems. This project will permit the demolition of three inadequate buildings totaling 32,568 SF.
IMPACT IF NOT PROVIDED: The Security mission will continue to suffer command, control, and communication inefficiencies by occupying five separate and physically remote facilities. The size of the armory will continue to limit weapons storage. Security operations carried out in the airmen dormitory area will continue to disrupt airmen quality of life standards. Delays in the construction of this facility will prevent the initial phases of land use conversion in the airmen community area and delay implementation of the base comprehensive plan. Already strained base operations and maintenance budgets will continue to be forced to pay excessive maintenance and repair costs on three substandard facilities.
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, 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	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	2,750

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE SANITARY SEWER SYSTEM	LS			2,132
SANITARY SEWER LINES	LF	28,000	48	(1,344)
SLIP SANITARY SEWER LINES	LF	17,000	38	(646)
REPAIR MANHOLES	EA	96	1,480	(142)
SUPPORTING FACILITIES				220
SITE WORK	LS			(220)
SUBTOTAL				2,352
CONTINGENCY (10%)				235
TOTAL CONTRACT COST				2,587
SUPERVISION, INSPECTION AND OVERHEAD (6%)				155
TOTAL REQUEST				2,742
TOTAL REQUEST (ROUNDED)				2,750

10. Description of Proposed Construction: Replace deteriorated sections of existing sewer lines and slip line as required, eliminate cross-connections between sanitary sewer and storm drainage, and replace/repair degraded manholes. Site work to include pavement replacement, shoring and other necessary support.

11. REQUIREMENT: 120,000 LS ADEQUATE: 75,000 LS SUBSTANDARD: 45,000 LS

PROJECT: Upgrade sanitary sewer system. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project. Shaw AFB cannot comply with the Clean Water Act (CWA) as administered through South Carolina Department of Health and Environmental Control Water Pollution Control Permit No SC0024970. This permit limits the maximum daily flow to 1.2 million gallons per day. Amendments to the CWA as well as the anti-back sliding provision of National Pollutant Discharge Elimination System (NPDES) make it increasingly difficult for Shaw AFB to maintain full compliance with the law. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. Repair of sanitary sewer mains is required to maintain the structural integrity of the sewer system for dependable transfer of wastewater from the source to the treatment works.

CURRENT SITUATION: The base has excessive infiltration and inflow. This has been documented through the violation of the bases discharge permit inflow limit on more than five occasions since July 1992. This is being further documented by the Sewer Evaluation Survey to be completed in September 1994. This situation will only degrade over time.

IMPACT IF NOT PROVIDED: Enforcement actions will increase as it becomes more difficult for Shaw AFB to maintain compliance with CWA. Environmental noncompliance strains relations with the host community,

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

creates an environmental threat and can lead to fines and penalties up to $25,000 per day.

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 PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
ELLSWORTH AIR FORCE BASE, SOUTH 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	589	3651	497				1	16	63	4,817
b. End FY 2001	445	2683	380				1	16	63	3,588

7. INVENTORY DATA ($000)

a. Total Acreage: (6,477)	
b. Inventory Total As Of: (30 SEP 95)	422,674
c. Authorization Not Yet In Inventory:	29,770
d. Authorization Requested In This Program:	3,400
e. Authorization Included In Following Program: (FY 1998)	27,300
f. Planned In Next Three Program Years:	19,850
g. Remaining Deficiency:	36,900
h. Grand Total:	539,894

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
411-135	UNDERGROUND FUEL STORAGE TANKS	LS	2,050		
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS	1,350		
		TOTAL:	3,400		

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

121-122	UPGRADE HYDRANT FUELING SYSTEM	LS	17,200		
610-000	CONSOLIDATED MANAGEMENT SUPPORT CENTER (PH 3)	41,650 SF	5,700		
841-161	ADD TO AND ALTER WATER SUPPLY SYSTEM	45,200 LF	4,400		
		TOTAL:	27,300		

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

113-321	UPGRADE AIRCRAFT PARKING APRON	LS	10,300		
130-142	ADD TO AND ALTER FIRE/CRASH RESCUE STATION	21,900 SF	2,000		
851-000	UPGRADE BASE ROADS	12,200 LF	7,550		

10. Mission or Major Functions: A bomb wing with one B-1 bomb squadron; a wing which conducts tactics testing; and a temporary B-1 bomb squadron assigned to the composite wing at Mountain Home AFB, ID.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	3,000
b. Water pollution:	11,390
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
ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA	UNDERGROUND FUEL STORAGE TANKS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	411-135	FXBM963002	2,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UNDERGROUND FUEL STORAGE TANKS	EA	85		1,540
UPGRADE UNDERGROUND STORAGE TANKS	EA	62	14,420	(894)
TANK REMOVAL/DISPOSAL	EA	23	28,090	(646)
SUPPORTING FACILITIES				215
UTILITIES	LS			(120)
PAVEMENTS	LS			(90)
SITE IMPROVEMENTS	LS			(5)
SUBTOTAL				1,755
CONTINGENCY (10%)				176
TOTAL CONTRACT COST				1,931
SUPERVISION, INSPECTION AND OVERHEAD (6%)				116
TOTAL REQUEST				2,047
TOTAL REQUEST (ROUNDED)				2,050

10. Description of Proposed Construction: Remove 23 underground storage tanks (USTs). Dispose of tank residue and test soil at each site. Remediate contaminated soil. Upgrade 62 existing tanks to include new piping, cathodic protection, leak detection, and spill/overfill protection.

11. REQUIREMENT: As required.
PROJECT: Remove and upgrade underground fuel storage tanks (USTs). (Current Mission)
REQUIREMENT: This is a Level II environmental compliance requirement. Upgrade all underground storage tanks regulated by 40 CFR 280 to new standards by Dec 1998. The Environmental Protection Agency (EPA) has set standards that require all regulated underground storage tanks to have leak detection, corrosion protection, and spill/overfill 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 Ellsworth AFB do not meet federal law (40 CFR 280.21) and state requirements for cathodic protection, leak detection monitoring and overfill/spill protection. These deficiencies must be corrected to prevent violation of federal UST regulations. The storage capacity provided by these tanks is required as an alternate source of energy during extremely cold weather or when adequate supplies of natural gas are not available. Ellsworth AFB, other than housing, is served by a single supply line for natural gas, which emphasizes the need for redundant heating sources. Aircraft fueling

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

3. INSTALLATION AND LOCATION

ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
UNDERGROUND FUEL STORAGE TANKS	FXBM963002

operations and bulk storage tanks are not monitored for subsurface releases; the State of South Dakota does not exempt nor defer these tanks from meeting all tank standards and requirements. Existing storage tanks do not meet the required criteria including release detection, adequate corrosion protection, spill prevention, and overfill protection.

IMPACT IF NOT PROVIDED: Failure to replace these tanks at Ellsworth AFB will result in an unacceptable risk of pollution. Additionally, Ellsworth AFB will not be in compliance with federal and state environmental requirements thereby subjecting the base to enforcement action and monetary penalties. If project is not accomplished by the established deadline, the base will be in violation of the law subject to receiving Notices of Violation, fines and penalties up to $25,000 per violation, 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. 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	4. PROJECT TITLE
ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	831-155	FXBM972500	1,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS			1,000
SUPPORTING FACILITIES				205
UTILITIES	LS			(125)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				1,205
CONTINGENCY (5%)				60
TOTAL CONTRACT COST				1,265
SUPERVISION, INSPECTION AND OVERHEAD (6%)				76
TOTAL REQUEST				1,341
TOTAL REQUEST (ROUNDED)				1,350

10. Description of Proposed Construction: Construct industrial wastewater pretreatment facilities to include package plants, oil/water separators, point source treatment/recovery/removal and required supporting facilities.

11. REQUIREMENT: As required.

PROJECT: Construct industrial wastewater pretreatment facilities. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Ellsworth AFB is subject to the pretreatment standards of the Clean Water Act (CWA) administered through the National Pollutant Discharge Elimination System (NPDES) Permit issued by the Environmental Protection Agency. Amendments to the CWA as well as the anti-back sliding provision of the NPDES make it increasingly difficult for Ellsworth AFB to maintain full compliance with its Water Pollution Control Permit. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative. The project is programmed to pretreat industrial effluent from approximately 12 facilities.

CURRENT SITUATION: Ellsworth AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into unnamed tributaries of Box Elder Creek. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic removal. On-going pollution prevention and product substitution initiatives are decreasing the total

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

3. INSTALLATION AND LOCATION

ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	FXBM972500

volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facilities.

IMPACT IF NOT PROVIDED: Enforcement actions will increase as it becomes more difficult for Ellsworth AFB to maintain compliance with its NPDES Permit. Non-compliance with the NPDES Permit will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day.

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 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	66	50	194					2	61	373
b. End FY 2001	65	46	181					2	61	355

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:	3,800
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	97,200
h. Grand Total:	1,377,983

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
318-614	UPGRADE ENGINE TEST FACILITIES REFRIGERATION SYSTEM, PLANT C	LS	3,800		
		TOTAL:	3,800		

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

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	3,800

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)				3,800

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 continued release of unacceptable levels of R-12 refrigerant, an Ozone Depleting chemical (ODC) into the atmosphere and to eliminate 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 provides a unique test capability. Testing is critical for aircraft development and production (F-22, B-2, C-17.) 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 degrees 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 the Arnold Air Force Base leaked 90,000 pounds (24 percent of plant capacity) of ozone depleting refrigerant (R-12) into the atmosphere last year. An emergency $1.0 million repair project using base operations

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 UPGRADE ENGINE TEST FACILITIES REFRIGERATION SYSTEM, PLANT C	5. PROJECT NUMBER ANZY973013

and maintenance funds was executed to stop this loss. Production of R-12 is ending by international agreement and executive order in December 1995. Without R-12, the current refrigeration system cannot operate, preventing cold flight conditions in the engine test facilities. 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. B Plant 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 occur. 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" or 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 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	655	4043	410	38	2		1	14	36	5,199
b. End FY 2001	536	3369	241	38	2		1	14	36	4,237

7. INVENTORY DATA ($000)

a. Total Acreage: (6,434)	
b. Inventory Total As Of: (30 SEP 95)	231,708
c. Authorization Not Yet In Inventory:	26,100
d. Authorization Requested In This Program:	11,650
e. Authorization Included In Following Program: (FY 1998)	7,250
f. Planned In Next Three Program Years:	9,400
g. Remaining Deficiency:	66,050
h. Grand Total:	352,158

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	145 PN	5,400		
722-351	CONSOLIDATED DINING HALL	20,000 SF	5,100		
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1,000 SF	1,150		
		TOTAL:	11,650		

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

211-111	HANGAR FIRE PROTECTION	LS	1,300
724-417	VISITING OFFICERS QUARTERS	40,000 SF	4,600
730-835	SECURITY POLICE OPERATIONS	9,000 SF	1,350
		TOTAL:	7,250

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

113-321	UPGRADE AIRCRAFT PARKING APRON	LS	2,700
136-664	UPGRADE RUNWAY LIGHTING SYSTEM	LS	4,000
211-111	ALTER MAINTENANCE HANGAR	LS	900
218-852	SURVIVAL EQUIPMENT SHOP	12,000 SF	1,800

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	FNWZ963004	5,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER DORMITORIES (145 PN)	SF	57,000		4,029
ALTERATION	SF	51,000	57	(2,907)
ADDITION (BALCONIES)	SF	6,000	170	(1,020)
AUTOMATIC SPRINKLER PROTECTION	SF	51,000	2	(102)
SUPPORTING FACILITIES				595
UTILITIES	LS			(125)
PAVEMENTS	LF	2,000	20	(40)
ASBESTOS REMOVAL	SF	30,000	11	(330)
SITE IMPROVEMENTS	SY	22,000	2	(45)
COMMUNICATIONS SUPPORT	SF	54,000	1	(55)
SUBTOTAL				4,624
CONTINGENCY (10%)				462
TOTAL CONTRACT COST				5,086
SUPERVISION, INSPECTION AND OVERHEAD (6%)				305
TOTAL REQUEST				5,391
TOTAL REQUEST (ROUNDED)				5,400

10. Description of Proposed Construction: Provide exterior entrances for two dormitories by adding concrete and masonry balconies and extending roof overhangs to cover balconies. Convert hallways to closets and/or mechanical space. Upgrade finishes, plumbing, electrical, heating, air conditioning, doors, and windows. Add sidewalks and landscaping. Replace electrical service. Includes asbestos abatement.
Air Conditioning: 100 Tons. Grade Mix: 140 E1-E4; 3 E5-E6; 2 E7-E9.

11. REQUIREMENT: As required.
PROJECT: Add to and alter dormitories. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. This project will add to and alter two dormitories to meet 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. Estimated intended utilization is 145 personnel: 140 E1-E4, 3 E5-E6 and 2 E7-E9, with a maximum utilization of 150 personnel.
CURRENT SITUATION: The majority of assigned unaccompanied enlisted personnel live in dormitories that do not meet DoD standards or live off-base in quarters costing more than they can afford. The dormitories included in this project were constructed in 1956 and have received no major upgrades. The existing dormitories have long narrow hallways serving interior room entrances, 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

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	FNWZ963004

personnel. The average cost of off-base housing for unaccompanied personnel is $436 per month. Of those personnel residing off base, 33% are considered unsuitably housed by current Air Force living standards. This project will provide upgraded facilities meeting current Air Force living standards.

IMPACT IF NOT PROVIDED: Morale, productivity, and career satisfaction for our unaccompanied enlisted personnel will continue to be degraded due to the substandard living conditions on base and the expensive housing off-base.

ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. Fire protection systems for this project meet new standards established in MIL-HNBK 1008B, "Fire Protection Facilities". Cost for fire protection is shown separately since this new standard is not yet reflected in the OSD approved unit cost factor for dormitories. 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.

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	CONSOLIDATED DINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96C	722-351	FNWZ963006	5,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED DINING HALL	LS			3,388
AIRMEN DINING HALL (DETACHED)	SF	18,000	160	(2,880)
IN-FLIGHT KITCHEN	SF	1,050	92	(97)
LINEN EXCHANGE	SF	2,500	94	(235)
POSTAL SERVICE UNIT	SF	1,950	90	(176)
SUPPORTING FACILITIES				1,235
UTILITIES	LS			(240)
SITE IMPROVEMENTS	LS			(285)
PAVEMENTS	LS			(310)
DEMOLITION	SF	26,800	15	(400)
SUBTOTAL				4,623
CONTINGENCY (5%)				231
TOTAL CONTRACT COST				4,854
SUPERVISION, INSPECTION AND OVERHEAD (6%)				291
TOTAL REQUEST				5,145
TOTAL REQUEST (ROUNDED)				5,100
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(500)

10. Description of Proposed Construction: Reinforced concrete foundation on drilled piers. Masonry and structural steel superstructure. Includes associated pavements, utilities, and site improvements. Also includes demolition of existing structures and relocation of gas and water mains. Air Conditioning: 70 Tons.

11. REQUIREMENT: 23,500 SF ADEQUATE: 0 SUBSTANDARD: 26,841 SF
PROJECT: Construct a consolidated dining facility. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. Adequate kitchen and dining facilities are required to support efficient quality food service operations for enlisted personnel. An "errand center" providing space for post office boxes, a linen exchange, an automatic teller machine, and pay phones will also enhance quality-of-life for dormitory residents. Consolidation of these related functions will also reduce overall operating and maintenance costs.
CURRENT SITUATION: Food service operations for dormitory residents are currently spread out in two under-utilized facilities. The in-flight kitchen is located in a third facility. Collocation in a single facility is needed to reduce both operating overhead and physical plant costs. Contract costs for food service operations can be considerably reduced by operating only one kitchen instead of three. Facility maintenance costs will be significantly reduced over the life of this project by a 25% reduction in the physical plant. Linen exchange is currently located in a warehouse near the flightline. Relocating this function to the new facility will reduce the current deficiency of warehouse space and therefore reduce the scope of the future warehouse expansion project. Construction of a separate postal unit will relieve overcrowding at the existing on-base Post Office and eliminate the need for a future 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
CONSOLIDATED DINING FACILITY	FNWZ963006

to expand that facility.

IMPACT IF NOT PROVIDED: Inefficient food service operations at excess costs will continue. In addition, there will continue to be a negative impact on quality of life for enlisted personnel. Also, a potential reduction in operation and maintenance costs will not be realized.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide." An economic analysis was 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	4. PROJECT TITLE
DYESS AIR FORCE BASE, TEXAS	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.74.56C	831-155	FNWZ972500	1,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	LS			850
SUPPORTING FACILITIES				170
UTILITIES	LS			(100)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(20)
SUBTOTAL				1,020
CONTINGENCY (5%)				51
TOTAL CONTRACT COST				1,071
SUPERVISION, INSPECTION AND OVERHEAD (6%)				64
TOTAL REQUEST				1,135
TOTAL REQUEST (ROUNDED)				1,150

10. Description of Proposed Construction: Construct industrial wastewater pretreatment facilities to include package plants, oil/water separators, point source treatment/recovery/removal and required supporting facilities.

11. REQUIREMENT: As required.

PROJECT: Construct industrial wastewater pretreatment facilities. (Current Mission)

REQUIREMENT: This is a Level II environmental compliance project. Dyess AFB is subject to the pretreatment standards of the Clean Water Act administered through the Industrial Waste Discharge Permit issued by the City of Abilene, TX. Amendments to the CWA as well as the anti-back sliding provision of the National Pollution Discharge Elimination System (NPDES) make it increasingly difficult for Dyess AFB to maintain full compliance with its Industrial Waste Discharge Permit. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative. The project is programmed to pretreat industrial effluent from approximately 11 facilities.

CURRENT SITUATION: Dyess AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into the Abilene sanitary sewer which ultimately discharges into the Clear Ford of the Brazos River. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic removal. On-going pollution prevention

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
INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES		FNWZ972500

and product substitution initiatives are decreasing the total volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facilities.

IMPACT IF NOT PROVIDED: Enforcement actions will increase as it becomes more difficult for Dyess AFB to maintain compliance with its Industrial User Permit. Non-compliance with the Industrial User Permit will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day.

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 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	801	3419	12678				43	757	200	18,898
b. End FY 2001	749	3190	11515				43	757	200	17,454

7. INVENTORY DATA ($000)

a. Total Acreage: (4,661)	
b. Inventory Total As Of: (30 SEP 95)	479,983
c. Authorization Not Yet In Inventory:	55,481
d. Authorization Requested In This Program:	5,580
e. Authorization Included In Following Program: (FY 1998)	19,360
f. Planned In Next Three Program Years:	1,000
g. Remaining Deficiency:	120,000
h. Grand Total:	681,404

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	20,000 SF	3,380		
871-183	UPGRADE STORM DRAINAGE SYSTEM	LS	2,200		
		TOTAL:	5,580		

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

211-152	C-17 COMPOSITE REPAIR FACILITY	55,000 SF	5,400		
217-742	AFCS MAINTENANCE FACILITY	102,000 SF	7,140		
730-772	ADD TO AND ALTER CHAPEL CENTER	LS	720		
832-266	REPLACE SANITARY SEWER LINES	40,000 LF	3,100	TURN KEY	
871-183	STORM DRAINAGE DISPOSAL	3,600 LF	3,000		
		TOTAL:	19,360		

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

149-962	CONTROL TOWER CAB	1 EA	1,000		

10. Mission or Major Functions: San Antonio Air Logistics Center which is responsible for logistics management, support, and depot-level maintenance of B-52, C-5, C-9, C-17, T-37, T-38, and T-41 aircraft and all fuels and TF39/T56/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; Air Force 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	3,380

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
WING SUPPORT FACILITY	LS			1,805
WING SUPPORT FACILITY	SF	20,000	84	(1,680)
ELEVATOR	EA	1	125,000	(125)
SUPPORTING FACILITIES				1,220
SITE PREPARATION	LS			(350)
UTILITIES	LS			(375)
PAVEMENT	LS			(250)
DEMOLITION	SF	40,700	6	(245)
SUBTOTAL				3,025
CONTINGENCY (5%)				151
TOTAL CONTRACT COST				3,176
SUPERVISION, INSPECTION AND OVERHEAD (6%)				191
TOTAL REQUEST				3,367
TOTAL REQUEST (ROUNDED)				3,380

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab with masonry walls, structural steel frame and metal roof system. Includes an elevator, utilities, parking, and all necessary support. Demolish four sub-standard facilities.
Air Conditioning: 40 Tons.

11. REQUIREMENT: 65,300 SF ADEQUATE: 25,300 SF SUBSTANDARD: 40,700 SF
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 Air Intelligence Agency. 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 are no other adequate facilities to support this requirement.
IMPACT IF NOT PROVIDED: 67th Intelligence Wing support functions will

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

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	4. PROJECT TITLE
KELLY AIR FORCE BASE, TEXAS	UPGRADE STORM DRAINAGE SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.80.56	871-183	MBPB953004	2,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE STORM DRAINAGE SYSTEM	LS			1,600
ELIMINATE CROSS-CONNECTIONS	LS			(1,100)
ELIMINATE RUN-OFF FROM INDUSTRIAL AREA	LS			(500)
SUPPORTING FACILITIES				300
SOIL REMEDIATION	LS			(300)
SUBTOTAL				1,900
CONTINGENCY (10%)				190
TOTAL CONTRACT COST				2,090
SUPERVISION, INSPECTION AND OVERHEAD (6%)				125
TOTAL REQUEST				2,215
TOTAL REQUEST (ROUNDED)				2,200

10. Description of Proposed Construction: Improve storm water quality by elimination of cross-connections of sanitary to process/non-process waters entering the storm drainage system, elimination of storm water run-off from potential contaminate areas, replacement of deteriorated line sections, and construction of berms/containment at potential spill/leak areas to prevent contaminates from entering storm drains.

11. REQUIREMENT: As required.
PROJECT: Upgrade storm drainage system. (Current Mission)
REQUIREMENT: This is a Level II environmental compliance requirement. This project is necessary to comply with Federal Clean Water Act regulations (40 CFR 122.26) and Texas Water Commission 31 Texas Administration Code 305.125 for storm water discharge. The base must comply with EPA and state storm water discharge permits by 1997. An adequate storm water runoff system is required to prevent contamination of nearby streams and surface waters. Berms, stabilized ditches, fuel-water separators and elimination of cross-connections are required to ensure heavy runoff cannot mix with oil and other contaminates associated with industrial activities, resulting in contamination of nearby streams. As part of Kelly AFB's Storm Water Pollution Prevention Plan, the base must certify that non-storm water discharges are not connected to the storm drainage system. Corrective actions are necessary to eliminate these non-storm water discharges and to provide pollution control structures to divert run-off, thus preventing contact with contaminates.
CURRENT SITUATION: Cross-connections exist between the industrial waste collection, sanitary, and storm sewer systems, allowing wastes from one system to enter another. Floor drains from numerous industrial buildings are connected to the storm drainage system. In addition, many storage

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
UPGRADE STORM DRAINAGE SYSTEM	MBPB953004

areas are inadequately bermed or need sheds to prevent contaminates from mixing with surface waters. The base cross-connection survey and Storm Water Pollution Prevention Plan were completed in 1993 and validate requirements identified in this project.

IMPACT IF NOT PROVIDED: Kelly AFB will not be in compliance with their Storm Water Pollution Prevention Plan. The base will continue to risk contamination of storm water run-off, therefore subjecting the base to enforcement action. Heavy rainfalls will continue to mix storm, sanitary, and industrial waste waters, violating state and federal regulations. Diversion of storm water through the sewage treatment plant will continue, causing hydraulic overload of the plant and potential Notice of Violations from EPA. The base could also receive fines of up to $25,000 per day per violation for non-compliance.

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 alternatives options were considered during the development of this project. No other option could meet the mission requirements; therefore, no formal economic analysis was needed or performed. A certificate of exception has been prepared.

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	1791	4615	2728	21	5222		28	604	48	15,057
b. End FY 2001	1791	4750	2578	60	6073		28	604	48	15,932

7. INVENTORY DATA ($000)

a. Total Acreage: (6,726)	
b. Inventory Total As Of: (30 SEP 95)	469,220
c. Authorization Not Yet In Inventory:	42,243
d. Authorization Requested In This Program:	5,100
e. Authorization Included In Following Program: (FY 1998)	3,400
f. Planned In Next Three Program Years:	11,350
g. Remaining Deficiency:	37,600
h. Grand Total:	568,913

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	UPGRADE RECRUIT DORMITORY	1,000 PN	5,100		
		TOTAL:	5,100		

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

871-183	UPGRADE STORM DRAINAGE SYSTEM	LS	3,400	
		TOTAL:	3,400	

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

171-476	COMBAT ARMS TRAINING FACILITY	36,100 SF	4,200	
310-914	PERSONNEL RSCH SCIENCE LAB	22,180 SF	2,150	
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	UPGRADE RECRUIT DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.57.96	721-312	MPLS963247	5,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE RECRUIT DORMITORY (1000 PN)				3,981
UPGRADE DORMITORY	SF	209,500	17	(3,562)
AUTOMATIC FIRE PROTECTION SYSTEMS	SF	209,500	2	(419)
SUPPORTING FACILITIES				365
SITE IMPROVEMENTS	LS			(115)
EMCS/COMMUNICATIONS	LS			(40)
ASBESTOS REMOVAL	SF	210,000	1	(210)
SUBTOTAL				4,346
CONTINGENCY (10%)				435
TOTAL CONTRACT COST				4,781
SUPERVISION, INSPECTION AND OVERHEAD (6%)				287
TOTAL REQUEST				5,068
TOTAL REQUEST (ROUNDED)				5,100

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: 150 Tons. Grade Mix: 1000 E1-E4.

11. REQUIREMENT: 8,000 PN ADEQUATE: 5,000 PN SUBSTANDARD: 3,000 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 foundation damage; however, additional work is required. This project is

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

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 specified in part II of Military Handbook 1190, "Facilities Planning and Design Guide". Fire protection systems for this project meet new standards established in MIL-HNBK 1008B, "Fire Protection Facilities". Cost for fire protection is shown separately since this new standard is not yet reflected in the OSD approved unit cost factor for dormitories. 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.

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

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
RANDOLPH 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	1538	3018	4127	82			31	27	219	9,042
b. End FY 2001	1577	2873	3922	82			31	27	219	8,731

7. INVENTORY DATA ($000)

a. Total Acreage: (5,011)	
b. Inventory Total As Of: (30 SEP 95)	186,247
c. Authorization Not Yet In Inventory:	5,300
d. Authorization Requested In This Program:	2,470
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	21,100
g. Remaining Deficiency:	15,700
h. Grand Total:	230,817

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
113-321	JPATS ADD TO AND ALTER BEDDOWN FACILITIES	LS	2,470		
		TOTAL:	2,470		

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

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

149-962	CONTROL TOWER (WEST)	1 EA	2,700
219-944	BASE CIVIL ENGINEERING COMPLEX	50,000 SF	5,800
442-758	CONSOLIDATED LOGISTICS COMPLEX	162,500 SF	10,500
880-217	FIRE PROTECTION SYSTEM	24,970 SF	2,100

10. Mission or Major Functions: Headquarters Air Education and Training Command; Headquarters Nineteenth Air Force; a flying training wing with T-1, T-37, and T-38 instructor pilot training and Undergraduate Navigator Training (UNT) using T-37 and T-43 aircraft; HQ Air Force Recruiting Service; AF Management Engineering Agency; AF Military Personnel Center; AF Civilian Personnel Management Center; and Headquarters Air Force Services Agency.

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
RANDOLPH AIR FORCE BASE, TEXAS	JPATS ADD TO AND ALTER BEDDOWN FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.47.41	113-321	TYMX963000	2,470

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JPATS ADD TO AND ALTER BEDDOWN FACILITIES	SF	51,900		2,058
COMBS WAREHOUSE	SF	12,000	45	(540)
ADD SIMULATOR CONTRACT LOG SUPPORT	SF	5,800	95	(551)
ALTER INSTRUMENT FLIGHT SIMULATOR	SF	3,700	25	(93)
MAINTENANCE FACILITY MODS	SF	30,400	25	(760)
TEMPORARY MAINTENANCE FACILITY	SF	700	20	(14)
ALTER MISC OPERATIONAL FACILITIES	LS			(100)
SUPPORTING FACILITIES				160
UTILITIES/PAVEMENTS/SITE IMPROVEMENTS	LS			(160)
SUBTOTAL				2,218
CONTINGENCY (5%)				111
TOTAL CONTRACT COST				2,329
SUPERVISION, INSPECTION AND OVERHEAD (6%)				140
TOTAL REQUEST				2,469
TOTAL REQUEST (ROUNDED)				2,470

10. Description of Proposed Construction: Facilities modifications for beddown of Joint Primary Aircraft Training System (JPATS) to include ramp modifications, simulator bay modifications, Simulator Contractor Logistics Support (SCLS) facilities, hangar modifications, temporary maintenance facilities, Contractor Operated and Maintenance Base Supply (COMBS) warehouse and other miscellaneous operational facilities modifications.

11. REQUIREMENT: As required.

PROJECT: Joint Primary Aircraft Training System (JPATS) add to and alter beddown facilities. (New Mission)

REQUIREMENT: Operational support facilities are needed to properly beddown new JPATS aircraft with scheduled delivery to begin July 1998. Project includes space for Contractor Operated and Managed Base Supply (COMBS), simulator bay modifications for new simulators, space for Simulator Contractor Logistics Support (SCLS), ramp tie downs and grounds, striping, modifications to existing hangar electrical and fire protection systems. It also includes modification to other operational support facilities and a temporary facility to house JPATS maintenance contractor's personnel and equipment until existing maintenance function, performed by Air Force personnel, vacates existing facilities when T-37s are phased out in FY00.

CURRENT SITUATION: Instructor Pilot Training is currently conducted at Randolph utilizing T-37 and T-38 aircraft. All facilities are configured for these airframes. Programmed changeout of the T-37 aircraft to JPATS aircraft will necessitate modifications to various facilities to support new aircraft. JPATS beddown will support 25 new aircraft with the last aircraft scheduled for delivery December 1999.

IMPACT IF NOT PROVIDED: Failure to accomplish this project will impact

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
JPATS ADD TO AND ALTER BEDDOWN FACILITIES	TYMX963000

overall mission capabilities and jeopardize the beddown of the JPATS aircraft. The Air Force will not be able to fulfill agreements to provide the SCLS and COMBS contractors adequate logistics and maintenance space resulting in possible contractor claims.

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. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared.

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	684	2828	1493	223	2758		166	37	86	8,275
b. End FY 2001	712	3009	1425	219	3199		166	37	86	8,853

7. INVENTORY DATA ($000)

a. Total Acreage: (6,158)	
b. Inventory Total As Of: (30 SEP 95)	301,469
c. Authorization Not Yet In Inventory:	40,220
d. Authorization Requested In This Program:	9,700
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	9,300
g. Remaining Deficiency:	27,600
h. Grand Total:	388,289

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 COMPLEX	136,800 SF	9,700	MAY 94	JAN 96
		TOTAL:	9,700		

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

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

171-623	COVERED AIRCRAFT SUPPORT EQUIPMENT TRAINING FACILITY	8,500 SF	1,000
610-243	ADD TO AND ALTER GROUP HEADQUARTERS FACILITY	16,100 SF	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 COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.57.96	442-758	VNVP902005	9,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED LOGISTICS COMPLEX	SF	136,800		6,778
WAREHOUSE	SF	109,000	48	(5,232)
OPEN STORAGE	SF	18,500	27	(500)
MANAGEMENT SPACE	SF	9,300	85	(791)
PREWIRED WORKSTATIONS	EA	64	3,980	(255)
SUPPORTING FACILITIES				1,975
UTILITIES/EMCS	LS			(475)
PAVEMENTS	LS			(375)
SITE IMPROVEMENTS	LS			(375)
DEMOLITION	SF	57,500	13	(750)
SUBTOTAL				8,753
CONTINGENCY (5%)				438
TOTAL CONTRACT COST				9,191
SUPERVISION, INSPECTION AND OVERHEAD (6%)				551
TOTAL REQUEST				9,742
TOTAL REQUEST (ROUNDED)				9,700
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(500)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame/roof system with brick veneer, utilities, parking, truck scale, and other necessary support. Functions include warehouse, open storage, and management area for base supply; traffic management and medical warehouse areas; and heavy equipment dock/truck scale. Demolish four sub-standard facilities.
Air Conditioning: 30 Tons.

11. REQUIREMENT: 173,600 SF ADEQUATE: 20,700 SF
SUBSTANDARD: 169,200 SF
PROJECT: Construct a consolidated logistics complex. (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 Traffic Management Office (TMO), 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 scattered inadequate facilities. This dispersed operation, coupled with poorly configured space with inadequate 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 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 COMPLEX	VNVP902005

totally inadequate for this operation. Numerous reports of inadequate space, fire deficiencies, and deteriorated environmental systems are on record. This project will provide the necessary space to support the base supply operations and adequate TMO and WRM warehouse areas. The complete logistics consolidation program includes a future MILCON project to construct a logistics administrative support facility adjacent to the warehouse complex as well as altering the current supply facility to accommodate various base functions. This consolidation effort will ultimately lead to the demolition and disposal of 16 substandard facilities totaling 187,311 square feet.

IMPACT IF NOT PROVIDED: Failure to provide adequate facilities will force the continued inefficient and inadequate base supply operation, thus degrading its ability to support the mission. Other base support functions will continue to operate at reduced efficiency or under unsafe conditions due to space limitations and dilapidated building conditions, greatly impacting the effectiveness of its support of the training mission. Energy and maintenance cost 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 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	2207	6466	1894				13	7	355	10,942
b. End FY 2001	1802	5830	1593				13	7	355	9,600

7. INVENTORY DATA ($000)

a. Total Acreage: (4,869)	
b. Inventory Total As Of: (30 SEP 95)	266,456
c. Authorization Not Yet In Inventory:	31,920
d. Authorization Requested In This Program:	8,440
e. Authorization Included In Following Program: (FY 1998)	2,500
f. Planned In Next Three Program Years:	12,100
g. Remaining Deficiency:	47,013
h. Grand Total:	368,429

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
610-284	ADD TO AND ALTER HQ AIR COMBAT COMMAND FACILITIES	50,000	SF	4,600		
831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES		LS	1,000		
832-266	UPGRADE SANITARY SEWER SYSTEM		LS	2,840		
			TOTAL:	8,440		

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

740-674	PHYSICAL FITNESS CENTER	24,000	SF	2,500		
			TOTAL:	2,500		

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

211-159	ACFT CORROSION CONTROL FCLTY	30,000	SF	5,500		
214-425	ADD TO VEHICLE MAINTENANCE FACILITY	5,200	SF	1,100		
721-312	DORMITORY	288	PN	5,500		

10. Mission or Major Functions: Headquarters Air Combat Command; a fighter wing with three F-15 fighter squadrons and C-21/UH-1 aircraft; two intelligence squadrons; 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	ADD TO AND 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	4,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER HQ AIR COMBAT COMMAND FACILITIES	LS			3,155
ALTER HQ AIR COMBAT COMMAND FACILITIES	SF	31,900	66	(2,105)
CONSTRUCT SCIF AREAS	SF	6,000	105	(630)
CONSTRUCT SAR AREAS	SF	4,000	105	(420)
SUPPORTING FACILITIES				805
UTILITIES	LS			(230)
PAVEMENTS	LS			(165)
SITE IMPROVEMENTS	LS			(235)
DEMOLITION	LS			(175)
SUBTOTAL				3,960
CONTINGENCY (10%)				396
TOTAL CONTRACT COST				4,356
SUPERVISION, INSPECTION AND OVERHEAD (6%)				261
TOTAL REQUEST				4,617
TOTAL REQUEST (ROUNDED)				4,600

10. Description of Proposed Construction: Provide all structural, architectural, mechanical and electrical work required to alter existing facilities. Construct a secure compartmentalized information facility (SCIF) and special access required (SAR) work areas, renovate interiors, site improvements, utility connections, demolition, asbestos removal and other support.
Air Conditioning: 200 Tons.

11. REQUIREMENT: 790,377 SF ADEQUATE: 664,239 SF
SUBSTANDARD: 60,345 SF
PROJECT: Add to and alter Headquarters Air Combat Command facilities. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. Adequate facilities are required to provide properly configured and secure work areas for the Air Combat Command Headquarters staff. Facility alterations are required that provide functional layouts, adequate electrical power for computers and other office equipment, adequate building heating, ventilating and air conditioning systems, and security. Site improvements, utilities, demolition work, and asbestos removal are also required to make the existing facilities adequate for supporting the ACC headquarters function.
CURRENT SITUATION: There is not enough adequate administrative space or 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 75,000 SF of leased interim office space at an annual cost of over 1 million dollars until additional headquarters facilities can be altered to accommodate them. In addition, several ACC organizations are required to occupy substandard work space on base that has previously been

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
ADD TO AND ALTER HQ AIR COMBAT COMMAND FACILITIES	MUHJ933008

identified for demolition and/or is unsuitable for upgrade. Over 480 headquarters staff personnel who are in leased space are required to conduct official business between offices that are up to 15 miles apart. This is an extremely inefficient and costly operation with many unproductive manhours spent in transit. Existing Base Civil Engineering (BCE) functions are working out of overcrowded and unsafe facilities that are located in the middle of the main headquarters area of the installation. Langley AFB has had two MILCON projects (Phase I & II) approved to construct a new Base Civil Engineering complex in a less congested area of the base that is more conducive to industrial type functions. The three primary facilities that are being vacated by the BCE are programmed to be converted into administrative space. This project (Phase I) will add to and alter two facilities and a future project will add to and alter the third.

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 one million dollars per year. HQ ACC organizations will be unable to effectively interact with each other. Personnel in SCI, SAR and other secure work areas will continue to be forced to work in overcrowded conditions, resulting in shift work and sharing of desks. 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	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	2,840

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE SANITARY SEWER SYSTEM	LS			2,246
SANITARY SEWER LINES	LF	15,000	49	(735)
SLIP SANITARY SEWER LINES	LF	35,000	39	(1,365)
REPAIR MANHOLES	EA	96	1,520	(146)
SUPPORTING FACILITIES				200
SITE WORK	LS			(200)
SUBTOTAL				2,446
CONTINGENCY (10%)				245
TOTAL CONTRACT COST				2,691
SUPERVISION, INSPECTION AND OVERHEAD (6%)				161
TOTAL REQUEST				2,852
TOTAL REQUEST (ROUNDED)				2,840

10. Description of Proposed Construction: Replace deteriorated sections of existing sewer lines and slip line as required; eliminate cross-connections between sanitary sewer and storm drainage; replace/repair degraded manholes; replace pavements of roads, parking lots, sidewalks and other site work as required; dewatering, shoring and other necessary support.

11. REQUIREMENT: 97,000 LS ADEQUATE: 47,000 LS SUBSTANDARD: 50,000 LS
PROJECT: Upgrade sanitary sewer system. (Current Mission)
REQUIREMENT: This is a Level I environmental compliance project. Currently, Langley AFB cannot comply with the Clean Water Act (CWA) as administered through National Pollution Discharge Elimination Discharge System (NPDES) Hampton Roads Sanitary District (HRSD) Industrial Wastewater Discharge Permit No 0011. This permit restricts the introduction of extraneous flows into the sanitary sewer system at Langley AFB and limits the maximum daily flow to 950,000 GPD. The HRSD Discharge Regulations prohibit the discharge of "any significant quantities of unpolluted water such as rainwater, stormwater, groundwater, street drainage, yard drainage". The Virginia Department of Environmental Quality (DEQ) Stormwater Permit No VA0083194 prohibits "discharge into state waters sewage, industrial wastes". Repair sanitary sewer mains to maintain structural integrity of the sewer system for dependable transfer of the wastewater from the source to the treatment works is required.
CURRENT SITUATION: The base has excessive infiltration and inflow. This has been documented through the violation of the bases discharge permit flow limit and release of raw sewage into the storm drain on more than 12 occasions since July 1992. This is being further documented by the Sewer System Evaluation Survey (SSES) to be completed in September 1994. This

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION	
LANGLEY AIR FORCE BASE, VIRGINIA	
4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE SANITARY SEWER SYSTEM	MUHJ973099

is in direct violation of the HRSD Regulations. This situation will only worsen over time.

IMPACT IF NOT PROVIDED: Enforcement actions will increase as it becomes more difficult for Langley AFB to maintain compliance with the CWA. Environmental noncompliance strains relations with the host community, creates an environmental threat and can lead to fines and penalties up to $25,000 per day.

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 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	731	4008	765		35		3	27	126	5,695
b. End FY 2001	757	4060	706		35		3	27	126	5,714

7. INVENTORY DATA ($000)

a. Total Acreage: (6,060)	
b. Inventory Total As Of: (30 SEP 95)	335,691
c. Authorization Not Yet In Inventory:	24,375
d. Authorization Requested In This Program:	18,300
e. Authorization Included In Following Program: (FY 1998)	8,850
f. Planned In Next Three Program Years:	16,950
g. Remaining Deficiency:	41,950
h. Grand Total:	446,116

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	10,900	MAR 94	SEP 94
141-753	KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	40,900	SF	6,300		
411-135	UNDERGROUND FUEL STORAGE TANKS		LS	1,100		
		TOTAL:		18,300		

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

131-111	COMMUNICATIONS FACILITY	18,000	SF	3,450		
610-249	WING HEADQUARTERS	28,300	SF	5,400		
		TOTAL:		8,850		

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

136-664	UPGRADE RUNWAY LIGHTING SYSTEM		LS	4,000		
171-214	WATER SURVIVAL TRAINING FACILITY	19,700	SF	5,000		
442-758	BASE SUPPLIES & EQUIP WHSE	25,000	SF	3,200		
610-249	MISSION SUPPORT COMPLEX	27,850	SF	4,750		

10. Mission or Major Functions: An air refueling wing with five KC-135 air refueling 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 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 HYDRANT FUELING SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.12.18	121-122	GJKZ958101	10,900

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				1,795
UTILITIES	LS			(770)
PAVEMENTS DEMOLITION	SY	8,000	77	(615)
SITE IMPROVEMENTS	LS			(230)
PAVEMENTS/ROADS	LS			(180)
SUBTOTAL				9,837
CONTINGENCY (5%)				492
TOTAL CONTRACT COST				10,329
SUPERVISION, INSPECTION AND OVERHEAD (6%)				620
TOTAL REQUEST				10,949
TOTAL REQUEST (ROUNDED)				10,900

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 all necessary support.

11. REQUIREMENT: 56 LS ADEQUATE: 21 LS SUBSTANDARD: 4 LS

PROJECT: Construct a KC-135 hydrant fueling system. (New Mission)

REQUIREMENT: Beddown construction is required to support the relocation of KC-135 aircraft to Fairchild AFB. Construct Type III 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. This project will provide Type III aircraft fueling capability on the existing ramp to support additional permanently assigned KC-135 aircraft which began to arrive in the third quarter of 1994. A total of 33 KC-135 aircraft will arrive by the fourth quarter of 1995.

CURRENT SITUATION: One of the two existing hydrant fueling systems at Fairchild AFB is dedicated for the Air National Guard (ANG) to support their tankers, it is a Panero system with 10 outlets. The second existing hydrant fueling system is a converted (Type I to Type III) system that uses 40 year old tanks, pumps and obsolete filter separators. This system has 15 outlets: 11 are located on the aprons that were previously utilized by bombers and transients, these are suitable for tanker operations. The remaining four are located on the ramp where this project is sited, but their locations cannot support KC-135 parking plan.

IMPACT IF NOT PROVIDED: KC-135 operations at Fairchild AFB will be

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

severely restricted due to restricted refueling operations. Sorties generation and turn-around of mission aircraft will 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 will occur.

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	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	6,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FACILITY	SF	40,900	125	5,113
SUPPORTING FACILITIES				570
UTILITIES	LS			(225)
PAVEMENTS	LS			(150)
SITE IMPROVEMENTS	LS			(90)
ELEVATOR	EA	1	105,000	(105)
SUBTOTAL				5,683
CONTINGENCY (5%)				284
TOTAL CONTRACT COST				5,967
SUPERVISION, INSPECTION AND OVERHEAD (6%)				358
TOTAL REQUEST				6,325
TOTAL REQUEST (ROUNDED)				6,300

10. Description of Proposed Construction: Two-story facility with concrete foundation, masonry walls, structural steel frame, sloping roof system, fire protection system, utilities, elevator, site improvements, and necessary support.
Air Conditioning: 85 Tons.

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 comply with Air Force guidance to build Objective Wing 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 in the 4th quarter of FY94. A total of 59 KC-135s will be in place by the 4th quarter of FY95. 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 fragmented lines of communications/authority. Aircrews and maintenance personnel must spend many hours away from their duty location in an effort

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION

FAIRCHILD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE	5. PROJECT NUMBER
KC-135 SQUADRON OPERATIONS/ AIRCRAFT MAINTENANCE UNIT FAC	GJKZ963501

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 support the much larger unified squadrons supporting the beddown of the 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	4. PROJECT TITLE
FAIRCHILD AIR FORCE BASE, WASHINGTON	UNDERGROUND FUEL STORAGE TANKS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.56	411-135	GJKZ960002	1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UNDERGROUND FUEL STORAGE TANKS	EA	17		892
ABOVEGROUND STORAGE TANK	EA	1	450,000	(450)
TANKS REMOVE/DISPOSAL	EA	16	27,630	(442)
SUPPORTING FACILITIES				65
SITE IMPROVEMENTS	LS			(35)
DEMOLITION (PUMPHOUSE)	SF	2,500	12	(30)
SUBTOTAL				957
CONTINGENCY (10%)				96
TOTAL CONTRACT COST				1,053
SUPERVISION, INSPECTION AND OVERHEAD (6%)				63
TOTAL REQUEST				1,116
TOTAL REQUEST (ROUNDED)				1,100

10. Description of Proposed Construction: Remove 16 underground fuel storage tanks and replace with one 500,000 gallon aboveground storage tank. Work includes corrosion protection and spill/overflow prevention systems, soil remediation, demolition of existing pumphouse, site work, utilities and necessary support.

11. REQUIREMENT: As required.

PROJECT: Remove underground stotage tanks and replace with aboveground storage tank. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance project. This project is required to upgrade all underground storage tanks (USTs) regulated by 40 CFR 280 to new standards by December 1998. The Environmental Protection Agency (EPA) has set standards that requires all regulated USTs to have leak detection, corrosion protection, and spill/overflow 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 whenever possible.

CURRENT SITUATION: Underground fuel tanks at Fairchild AFB do not meet Federal regulatory requirements for corrosion protection, leak detection monitoring, and overfill/spill protection. Sixteen tanks will be replaced by one 500,000 gallon aboveground storage tank which will meet all environmental regulatory requirements. Existing pumphouse totalling 2,500 SF will be demolished as a result of this project.

IMPACT IF NOT PROVIDED: Failure to replace these tanks will result in an unacceptable risk of pollution. Additionally, the base will be in violation of the law, subject to receiving Notices of Violation, fines and penalties up to $25,000 per violation, and significant adverse publicity.

ADDITIONAL: There is no criteria/scope for this project in Part II of

1. COMPONENT	FY 1997 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION	
FAIRCHILD AIR FORCE BASE, WASHINGTON	
4. PROJECT TITLE	5. PROJECT NUMBER
UNDERGROUND FUEL STORAGE TANKS	GJKZ960002

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 PROGRAM (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA 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	522	3955	1250				25	28	103	5,883
b. End FY 2001	503	3685	1177				25	28	103	5,521

7. INVENTORY DATA ($000)

a. Total Acreage: (5,745)	
b. Inventory Total As Of: (30 SEP 95)	201,531
c. Authorization Not Yet In Inventory:	11,790
d. Authorization Requested In This Program:	5,400
e. Authorization Included In Following Program: (FY 1998)	10,600
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	67,400
h. Grand Total:	296,721

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	222 PN	5,400		
		TOTAL:	5,400		

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

219-000	BASE ENGINEERING COMPLEX	125,175 SF	8,600
411-135	IMPROVE JET FUEL STORAGE	LS	2,000
		TOTAL:	10,600

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

10. Mission or Major Functions: An Air Combat Command airlift wing with three C-141 squadrons; an Air Force Reserve C-141 associate airlift wing; Northwest Air Defense Sector, which will consolidate into the Western Air Defense Sector 95/2 and be assigned to the Air National Guard; and an Air National Guard air defense detachment (F-15 aircraft).

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	ALTER DORMITORIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
4.18.96	721-312	PQWY973001	5,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORIES (222 PN)				3,969
ALTERATION	SF	81,000	47	(3,807)
AUTOMATIC SPRINKLER PROTECTION	SF	81,000	2	(162)
SUPPORTING FACILITIES				705
UTILITIES	LS			(175)
PAVEMENTS	LS			(205)
SITE IMPROVEMENTS	LS			(105)
ASBESTOS ABATEMENT	LS			(220)
SUBTOTAL				4,674
CONTINGENCY (10%)				467
TOTAL CONTRACT COST				5,141
SUPERVISION, INSPECTION AND OVERHEAD (6%)				308
TOTAL REQUEST				5,449
TOTAL REQUEST (ROUNDED)				5,400

10. Description of Proposed Construction: Alter three, three-story dormitories. Includes upgrading the mechanical and electrical system, interior finishes, installation of individual storage lockers, providing game/lounge rooms, laundry rooms, fire protection, site improvements, asbestos abatement, and necessary support.
Air Conditioning: 63 Tons. Grade Mix: 222 E1-E4.

11. REQUIREMENT: As required.
PROJECT: 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. Estimated intended utilization is 222 personnel: 222 E1-E4, with a maximum utilization of 222 personnel.
CURRENT SITUATION: The facilities to be upgraded were constructed in 1953. These dormitories are substandard and do not meet current living standards. Inadequate lighting and electrical power, substandard mechanical and plumbing systems, and deteriorated interior and exterior finishes are all major inefficiencies of these buildings.
IMPACT IF NOT PROVIDED: Substandard living conditions will persist and morale, productivity, and career satisfaction of the enlisted force will continue to be degraded.
ADDITIONAL: This project meets the criteria/scope specified in the new barracks standard established by OSD. An economic analysis has been prepared comparing the alternatives of new construction, revitalization,

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
ALTER DORMITORIES	PQWY973001

leasing and status quo operation. 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. Fire protection system for this project meets new standards established in MIL-HNBK 1008B, Fire Protection for Facilities, published 15 January 1994. Cost for fire protection is shown separately since this new standard is not yet reflected in the OSD approved unit cost factor for dormitories.

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			
	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: (0)	
b. Inventory Total As Of: (30 SEP 95)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	19,526
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	0

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	4,226		
422-264	MUNITIONS STORAGE IGLOOS	54,500 SF	7,000	MAY 94	SEP 95
442-758	WAR READINESS MATERIAL WAREHOUSE	15,000 SF	2,300		
442-758	WAR READINESS MATERIAL WAREHOUSES	100,000 SF	6,000		
		TOTAL:	19,526		

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

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	SPECIAL TACTICAL UNIT DETACHMENT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.72.48	100-000	PAYZ974448	4,226

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SPECIAL TACTICAL UNIT DETACHMENT FACILITY	LS			4,226
SUBTOTAL				4,226
TOTAL CONTRACT COST				4,226
TOTAL REQUEST				4,226
TOTAL REQUEST (ROUNDED)				4,226

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	MUNITIONS STORAGE IGLOOS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.80.31	422-264	HACC963024	7,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MUNITIONS STORAGE IGLOOS (25)	SF	54,500	81	4,415
SUPPORTING FACILITIES				1,940
UTILITIES	LS			(255)
PAVEMENTS	LS			(460)
SITE IMPROVEMENTS	LS			(1,225)
SUBTOTAL				6,355
CONTINGENCY (5%)				318
TOTAL CONTRACT COST				6,673
SUPERVISION, INSPECTION AND OVERHEAD (6%)				400
TOTAL REQUEST				7,073
TOTAL REQUEST (ROUNDED)				7,000

10. Description of Proposed Construction: Bermed modular reinforced concrete munitions igloos including utilities and site improvements.

11. REQUIREMENT: As required.

PROJECT: Construct munitions igloos including security fence, access roads, and utilities. (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 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 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	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	6,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
WAR READINESS MATERIAL WAREHOUSES	SF	100,000	45	4,500
SUPPORTING FACILITIES				870
UTILITIES	LS			(350)
PAVEMENTS	LS			(230)
SITE IMPROVEMENTS	LS			(290)
SUBTOTAL				5,370
CONTINGENCY (5%)				269
TOTAL CONTRACT COST				5,639
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				367
TOTAL REQUEST				6,006
TOTAL REQUEST (ROUNDED)				6,000

10. Description of Proposed Construction: Construct two pre-engineered metal and masonry buildings on concrete foundations with lighting, ventilation, and supporting facilities including pavements and site improvements.

11. REQUIREMENT: 100,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct War Readiness Material (WRM) storage 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.

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

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 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	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	2,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
WAR READINESS MATERIAL WAREHOUSE	SF	15,000	110	1,650
SUPPORTING FACILITIES				170
UTILITIES	LS			(100)
PAVEMENTS	LS			(40)
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				1,820
CONTINGENCY (5%)				91
TOTAL CONTRACT COST				1,911
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				124
TOTAL REQUEST				2,035
TOTAL REQUEST (ROUNDED)				2,300

10. Description of Proposed Construction: Construct a pre-engineered metal and masonry building with environmental control systems, restrooms, administrative and shop spaces, required utilities and supporting facilities, including pavements, and site improvements.
Air Conditioning: 50 Tons.

11. REQUIREMENT: As required.
PROJECT: Construct a War Readiness Material (WRM) warehouse. (New Mission)
REQUIREMENT: Rations storage facilities 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 from CONUS, which will impede US capability in executing contingency plans

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

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 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	325	3947	682				14	62	177	5,207
b. End FY 2001	327	3886	694				14	62	177	5,160

7. INVENTORY DATA ($000)

a. Total Acreage: (1,365)	
b. Inventory Total As Of: (30 SEP 95)	125,975
c. Authorization Not Yet In Inventory:	9,473
d. Authorization Requested In This Program:	3,400
e. Authorization Included In Following Program: (FY 1998)	5,600
f. Planned In Next Three Program Years:	7,250
g. Remaining Deficiency:	8,510
h. Grand Total:	160,208

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
842-245	ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM	28,800 LF	3,400	FEB 94	AUG 96
		TOTAL:	3,400		

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

141-783	MOBILITY PROCESSING TERMINAL	21,000 SF	3,250
721-312	ADD TO AND ALTER DORMITORY	21,000 SF	2,350
		TOTAL:	5,600

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

211-152	AIRCRAFT SHOP	43,000 SF	4,900
721-312	ADD TO AND ALTER DORMITORY	21,000 SF	2,350

10. Mission or Major Functions: A fighter wing with two F-16 squadrons, an F-15 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	ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	842-245	VYHK903015	3,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM	LF	28,800		2,779
ADDITION	LF	7,200	95	(684)
ALTERATION	LF	21,600	97	(2,095)
SUPPORTING FACILITIES				120
PAVEMENTS	SY	4,500	20	(90)
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				2,899
CONTINGENCY (10%)				290
TOTAL CONTRACT COST				3,189
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				207
TOTAL REQUEST				3,396
TOTAL REQUEST (ROUNDED)				3,400

10. Description of Proposed Construction: Repair, replace, increase size of, and add water supply lines. Replace shut off valves, cathodic protection, control shafts, fixtures, and branchings. Include trenching, backfill, reseeding, replanting, and repaving.

11. REQUIREMENT: As required.

PROJECT: Add to and alter water distribution system. (Current Mission)

REQUIREMENT: This is a Level I Commander's Facility Assessment project. An adequate water distribution and looping system is required to provide water in sufficient quantity, freshness, and pressure to facilities throughout the entire base for domestic and industrial purposes. Adequate quantity and pressure must also be provided for fire fighting purposes.

CURRENT SITUATION: The base water distribution system was constructed 40 years ago to accommodate the water demand of the installation at that time. Since then, base population has doubled and the increased water need can no longer be satisfied by the existing system. The age of the system makes it susceptible to frequent leaks in water mains around base. In the past year, three major leaks have been discovered and plugged. These leaks were of such magnitude that the reason they were detected was the dramatic increase in water consumption they produced. It is likely that many smaller leaks exist and have gone undetected. Another problem is the single line configuration of the existing system. Every time maintenance is performed, large areas of the base must be shut off, as there is no redundant or "looped" flow. Facilities in the South Base area receive very low pressure since they are at the end of the water line, and there are some facilities on this end that have no water service at all. The single line system also affects water quality. In June 1993, the base water system received bacterial contamination. The inability to switch

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
ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM	VYHK903015

water supply sources and the difficulty of flushing water out of "dead ends" resulted in the loss of drinking water for a month on base. The existing system is inadequate to provide acceptable fire fighting capabilities. In the South Base area, water pressure is so low that in order to fight a major fire, water must be brought in by truck. Even in the main base area, there is only one water main with sufficient capacity to suppress major fires. Fire fighters must run an aboveground line from this main for as many as three blocks to the fire.

IMPACT IF NOT PROVIDED: The base will continue to suffer from an inadequate water supply infrastructure. South Base facilities will receive inadequate or nonexistent water service. Water pressure will be too low to serve several current and future facilities (i.e. Alternate Control Tower, Munitions Storage Area, Combat Arms Training Facility). Personnel in all areas of the base will experience periodic, widespread interruptions in service. Personnel will be exposed to harmful microorganisms in their drinking water. The threat of major losses due to fire will increase as adequate pressure and availability of water will not exist.

ADDITIONAL: The area serviced by this project is not eligible for NATO funding. It represents the US portion of a joint US and NATO effort. NATO is committed to funding their portion of the effort. 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 complete replacement, add to and alter existing, 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
THULE AIR BASE, GREENLAND	AIR FORCE SPACE COMMAND	2.85

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	21	109	4							134
b. End FY 2001	21	109	2							132

7. INVENTORY DATA ($000)

a. Total Acreage: (234,022)	
b. Inventory Total As Of: (30 SEP 95)	398,365
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	5,300
e. Authorization Included In Following Program: (FY 1998)	7,602
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	24,870
h. Grand Total:	436,137

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
833-354	SOLID WASTE DISPOSAL FACILITIES	12,000 SF	5,300		
		TOTAL:	5,300		

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

721-312	ALTER DORMITORY	113 PN	7,602
		TOTAL:	7,602

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

10. Mission or Major Functions: A space warning squadron and a satellite tracking detachment.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	5,300
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
THULE AIR BASE, GREENLAND	SOLID WASTE DISPOSAL FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
3.58.56	833-354	WWCX963003	5,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SOLID WASTE DISPOSAL FACILITIES	LS			4,720
INCINERATOR FACILITY	SF	12,000	270	(3,240)
REMEDIATE LANDFILL	CY	40,000	37	(1,480)
SUPPORTING FACILITIES				15
COMMUNICATIONS	LS			(15)
SUBTOTAL				4,735
CONTINGENCY (5%)				237
TOTAL CONTRACT COST				4,972
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				323
TOTAL REQUEST				5,295
TOTAL REQUEST (ROUNDED)				5,300

10. Description of Proposed Construction: Construct a 12,000 SF pre-engineered building with arctic foundation, package incineration equipment, communications support, and energy recovery system. Generated heat from the incinerator will be used as supplemental heat for the building. Remediate the existing landfill.

11. REQUIREMENT: 12,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a solid waste disposal facility and remediate the landfill (Current Mission)

REQUIREMENT: Thule AB generates 2000 tons of burnable municipal trash each year. The 1987 Memorandum of Understanding between the United States and Greenland requires that all non-hazardous burnable waste be incinerated to reduce landfill volume. The landfill is required to be in compliance with the Final Governing Standards for installations in Greenland. All non-burnable and non-hazardous trash will be placed in the landfill. Hazardous waste will be separated from the burnable trash and will be disposed of in the US in accordance with applicable environmental regulations.

CURRENT SITUATION: All non-hazardous solid waste is buried in a landfill which lies in the bed of a natural meltwater stream. The landfill has no liner to prevent leachates from contaminating the ground water which subsequently drains into North Star Bay. The landfill does not currently meet the standards governing environmental protection for US installations in Greenland. In addition, there are no facilities available for incinerating solid waste at Thule.

IMPACT IF NOT PROVIDED: Burnable trash will continue to be placed in the existing landfill, violating the Memorandum of Understanding with Greenland. The landfill currently poses a contamination hazard to the

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

3. INSTALLATION AND LOCATION	
THULE AIR BASE, GREENLAND	
4. PROJECT TITLE	5. PROJECT NUMBER
SOLID WASTE DISPOSAL FACILITIES	WWCX963003

North Star Bay and violates DoD environmental policy.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". Neither AFM 86-2 nor AFM 88-11 establish scope criteria for a solid waste incinerator facility; square footage for this facility is based on industry standards. A preliminary analysis of reasonable options for accomplishing this project was done. It indicates there is only one option that will satisfy statutory and 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 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	1.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	210	1968	321				321	1290	188	4,298
b. End FY 2001	208	1906	319				321	1290	188	4,232

7. INVENTORY DATA ($000)

a. Total Acreage: (3,471)	
b. Inventory Total As Of: (30 SEP 95)	198,559
c. Authorization Not Yet In Inventory:	2,400
d. Authorization Requested In This Program:	1,800
e. Authorization Included In Following Program: (FY 1998)	2,950
f. Planned In Next Three Program Years:	1,500
g. Remaining Deficiency:	7,250
h. Grand Total:	214,459

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
740-674	ADD TO AND ALTER PHYSICAL FITNESS CENTER	16,100 SF	1,800	JAN 94	AUG 95
		TOTAL:	1,800		

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

730-833	SECURITY POLICE CENTRAL CONTROL	11,600 SF	2,950
		TOTAL:	2,950

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

750-000	RECREATION COMPLEX	LS	1,500

10. Mission or Major Functions: A wing with no permanently assigned force structure responsible for regional logistics in Turkey and command and control for deployed forces. As a combined US/Turkish common defense facility, Incirlik supports a composite wing (provisional) with various types of aircraft and multinational forces engaged in PROVIDE COMFORT AND SOUTHERN WATCH.

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	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	1,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER PHYSICAL FITNESS CENTER	SF	16,100		1,430
ADDITION	SF	13,100	100	(1,310)
ALTERATION	SF	3,000	40	(120)
SUPPORTING FACILITIES				155
UTILITIES	LS			(70)
PAVEMENTS	SY	3,000	10	(30)
SITE IMPROVEMENTS	LS			(20)
DEMOLITION	SF	18,500	2	(35)
SUBTOTAL				1,585
CONTINGENCY (5%)				79
TOTAL CONTRACT COST				1,664
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				108
TOTAL REQUEST				1,772
TOTAL REQUEST (ROUNDED)				1,800

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 Tons.

11. REQUIREMENT: 28,200 SF ADEQUATE: 15,072 SF SUBSTANDARD: 18,489 SF
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 18,500 SF, will occur upon completion of this project.

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

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 little opportunity for off-base physical fitness activities.

ADDITIONAL: This project meets the criteria/scope specified in Part II of MIL-HNBK 1190, "Facility Planning and Design Guide". This project is not eligible for NATO funding. It is not within an established NATO infrastructure category for common funding, nor is it expected to become eligible. Current NATO policy indicates that this item will continue to be a user responsibility. However, a precautionary prefinancing statement will be submitted in the event the project becomes eligible in the future.

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	389	134						48	589
b. End FY 2001	17	357	129						48	551

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:	1,800
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	30,694

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	9,000 SF	1,800	FEB 94	AUG 96
		TOTAL:	1,800		

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	1,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE STATION	SF	9,000	160	1,440
SUPPORTING FACILITIES				220
UTILITIES	LS			(30)
PAVEMENTS	SY	1,300	50	(65)
SITE IMPROVEMENTS	LS			(5)
BACK UP POWER	KW	50	600	(30)
SPRINKLER SYSTEM	LS			(40)
VENTILATION	LS			(10)
DEMOLITION	SF	3,750	11	(40)
SUBTOTAL				1,660
CONTINGENCY (5%)				83
TOTAL CONTRACT COST				1,743
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				44
TOTAL REQUEST				1,787
TOTAL REQUEST (ROUNDED)				1,800

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.

11. REQUIREMENT: 9,000 SF ADEQUATE: 0 SUBSTANDARD: 3,731 SF

PROJECT: Construct a four vehicle main fire station. (Current Mission)

REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A new fire station is required to support an increase in the fire protection mission resulting from the closure of the RAF Croughton's former support installation at RAF Upper Heyford (eight miles from the base). Following this action RAF Croughton will have to be self sufficient for its fire protection needs. The requirement was first established after the official announcement of the RAF Upper Heyford base closure and it was determined that the existing facilities were totally unsuitable due to their limited size.

CURRENT SITUATION: The existing fire station is a 53-year-old World War II temporary facility that is in a poor state of repair and has operated as a secondary station. Fire fighting capabilities on the site are limited and are 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 requirements for response time or fire fighting capability. Closure of RAF Upper Heyford in September 1994 will eliminate any USAF reinforcement capability and will result in a serious shortfall in fire protection for a number of critical communications activities.

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

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 direct between presidential and other high level dignitary 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 delegates; (6) a weather intercept facility that obtains foreign countries environmental data; and (7) the Autodin switching capability for Northern Europe. The existing fire station is less than half of the required size and is not suitable for alteration. Recently assigned P24 vehicles are too large to fit into the vehicle stalls.

IMPACT IF NOT PROVIDED: Failure to provide this facility will seriously affect the successful accomplishment of fire protection activities at RAF Croughton and its satellite transmitting site located at RAF Barford Saint John. Failure to provide this project could result in the failure of many communications capabilities critical to the DoD mission in the European theater. It could also result in 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 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	483	4000	632				2	8	268	5,393
b. End FY 2001	492	3923	625				2	8	268	5,318

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:	7,950
e. Authorization Included In Following Program: (FY 1998)	5,200
f. Planned In Next Three Program Years:	14,050
g. Remaining Deficiency:	43,950
h. Grand Total:	243,615

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1997

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	DORMITORY	72 PN	3,800	MAR 94	AUG 95
842-245	ADD TO AND ALTER WATER DISTRIBUTION MAINS	LS	4,150	MAR 94	AUG 95
		TOTAL:	7,950		

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

121-111	CONSTRUCT BASE FUELS COMPLEX	8,000 SF	1,500
610-128	COMBAT READINESS CENTER	25,000 SF	3,700
		TOTAL:	5,200

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

141-753	ADAL SQUADRON OPERATIONS	2,200 SF	1,900
211-152	GENERAL PURPOSE ACFT MAINT	24,000 SF	3,200
610-122	BASE SUPPLY ADMINISTRATION	17,000 SF	2,750
721-312	ADD TO AND ALTER DORMITORIES	216 PN	6,200

10. Mission or Major Functions: A flying wing with two F-15 squadrons and oneF-15C/D squadron; and 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	MSET933000	3,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (72 PN)	SF	25,600	120	3,072
SUPPORTING FACILITIES				480
UTILITIES	LS			(125)
PAVEMENTS	LS			(135)
SITE IMPROVEMENTS	LS			(95)
COMMUNICATIONS SUPPORT	LS			(125)
SUBTOTAL				3,552
CONTINGENCY (5%)				178
TOTAL CONTRACT COST				3,730
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				93
TOTAL REQUEST				3,823
TOTAL REQUEST (ROUNDED)				3,800

10. Description of Proposed Construction: Concrete foundations and floor slabs, masonry walls and roof. Includes room-bath-room configuration, laundry and storage rooms, insulation, sound attenuation and energy conservation features. Constructs balconies for exterior entrances. Project includes fire protection, landscaping, and all utilities and necessary support.
Grade Mix: 72 E1-E4.

11. REQUIREMENT: As required.
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. 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. Estimated intended utilization is 72 personnel: 72 E1-E4, with a maximum utilization of 72 personnel.
CURRENT SITUATION: There are currently not enough adequate dormitories to accommodate the unaccompanied enlisted personnel at this base. Existing substandard facilities have central latrines, insufficient laundry, recreational space and storage space. The infrastructure of the facilities consists of inadequate heat controls, insufficient insulation and noise attenuation. Maintenance and repair costs for maintaining the infrastructure are out of balance when compared to modern facilities. The majority of unaccompanied enlisted personnel assigned to RAF Lakenheath live in substandard dormitories or are forced to live in expensive off-base quarters.

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

IMPACT IF NOT PROVIDED: RAF Lakenheath will fail to meet the minimum Air Force standards for dormitory living. Personnel will be forced to live in substandard dormitories which degrade morale, career satisfaction and productivity of the junior enlisted force.
ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. This project is not eligible for NATO funding. This type of facility is not within an established NATO infrastructure category for common funding and will most likely continue to be a user responsibility; however, a precautionary prefinancing statement will be submitted in the event the project becomes eligible in the future. 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 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	4. PROJECT TITLE
ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM	ADD TO AND ALTER WATER DISTRIBUTION MAINS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96U	842-245	MSET990027	4,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER WATER MAINS	LS			3,432
6" WATER DISTRIBUTION MAIN	LF	16,000	23	(368)
10" WATER DISTRIBUTION MAIN	LF	58,000	33	(1,914)
GROUND WATER STORAGE (250,000 GL)	EA	2	275,000	(550)
FIRE HYDRANTS	EA	200	3,000	(600)
SUPPORTING FACILITIES				240
PAVEMENTS	SY	3,550	45	(160)
SITE IMPROVEMENTS	LS			(80)
SUBTOTAL				3,672
CONTINGENCY (10%)				367
TOTAL CONTRACT COST				4,039
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				101
TOTAL REQUEST				4,140
TOTAL REQUEST (ROUNDED)				4,150

10. Description of Proposed Construction: Replace and install additional sections of PVC water distribution pipe, increase water storage capacity and provide additional fire hydrants. Replace obsolete host nation hydrants with US standard. Modify tanks, valves and pumps to maintain proper pressure and flow rates. Return site to original condition after excavation.

11. REQUIREMENT: As required.
PROJECT: Add to and alter water distribution mains. (Current Mission)
REQUIREMENT: This is a Level I Commander's Facility Assessment requirement. A properly sized and balanced water distribution system is required to meet domestic, industrial, and fire protection needs. Additional mains will provide a loop system to equalize and improve residual pressure throughout the system. US standard fire hydrants are needed to provide adequate flow and ease of use for fire fighting.
CURRENT SITUATION: The existing water distribution system was first installed in 1941 with improvements being added over the years. A majority of the fire protection water supply comes from 26 emergency water storage tanks. These tanks are inadequate for current fire protection needs. They are too small and are crumbling from age. The water supply lines feeding fire hydrants and domestic sites frequently break due to the age of the system. Another problem is the single line configuration of the existing system. Every time maintenance is performed, large areas of the base must be shut off because there is no redundant or "looped" flow. Fire fighting capability is especially poor on the north side of the base where it is totally dependent on emergency water storage tanks. The domestic supply on the north side, likewise, provides inadequate pressure and supply. Fire protection is inadequate at the largest fire flow point:

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
ADD TO AND ALTER WATER DISTRIBUTION MAINS	MSET990027

the commissary and warehouse. The commissary is located at one of the most densely developed areas of the base and it is doubtful that there would be adequate storage and flow to put out a large fire in this area.
IMPACT IF NOT PROVIDED: Water flow on base will degrade to the point of being inadequate to fight a large fire. Risk is high for the loss of an $8.8 million store and warehouse with its contents without increased fire protection. Neighboring warehouses, in proximity to the warehouse, are vulnerable to complete loss without this project. Water supply will be cut off to a large portion of the base every time maintenance is performed on the existing system.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook, "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 not eligible for NATO funding. 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 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	269	2577	606				13	30	4	3,499
b. End FY 2001	396	3453	619				13	30	4	4,515

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:	6,400
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	34,580
h. Grand Total:	160,820

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	6,400	JUL 94	MAY 96
		TOTAL:	6,400		

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 Third Air Force; a flying wing with a KC-135 squadron; and the European Tanker Task Force (KC-135). In 1995, a Special Operations Group (SOG--MC/HC-130 aircraft and MH-53 helicopters) will consolidate operations at RAF Mildenhall from RAF Alconbury.

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	6,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (124 PN)	SF	44,000	125	5,500
SUPPORTING FACILITIES				480
UTILITIES	LS			(95)
PAVEMENTS	LS			(90)
SITE IMPROVEMENTS	LS			(85)
COMMUNICATIONS SUPPORT	LS			(50)
DEMOLITION	SF	20,000	8	(160)
SUBTOTAL				5,980
CONTINGENCY (5%)				299
TOTAL CONTRACT COST				6,279
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				157
TOTAL REQUEST				6,436
TOTAL REQUEST (ROUNDED)				6,400

10. Description of Proposed Construction: Concrete foundations and floor slabs, masonry walls and roof. Includes room-bath-room configuration, laundry and storage rooms, insulation, sound attenuation and energy conservation features. Constructs balconies for exterior entrances. Project includes fire protection, demolition of existing buildings, and all utilities and necessary support.
Grade Mix: 124 E1-E4.

11. REQUIREMENT: As required.
PROJECT: Construct a dormitory. (Current Mission)
REQUIREMENT: This is a Level I 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. Estimated intended utilization is 124 personnel: 124 E1-E4, with a maximum utilization of 124 personnel.
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 20,000 square feet will be demolished as part of this project.
IMPACT IF NOT PROVIDED: Substandard living conditions on base and expensive off-base housing will continue to degrade the morale,

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

productivity and career satisfaction of the enlisted force. This problem is further compounded by an increase in mission activities and the beddown of the 352nd Special Operations Group.

ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks standard established by OSD. This project is not eligible for NATO funding. This type of facility is not within an established NATO infrastructure category for common funding and will most likely continue to be a user responsibility; however, a precautionary prefinancing statement will be submitted in the event the project becomes eligible in the future. 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 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 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										
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:

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1995

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
010-211	PLANNING & DESIGN	LS	32,417		

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	32,417

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PLANNING AND DESIGN	LS			32,417
SUBTOTAL				32,417
TOTAL CONTRACT COST				32,417
TOTAL REQUEST				32,417
TOTAL REQUEST (ROUNDED)				32,417

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										
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:

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 1995

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.

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

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VARIOUS	PROJECTS $1 MILLION AND UNDER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)

10. Description of Porposed Construction:

Following are individual justification paragraphs for all projects $1 million and under.

VARIOUS LOCATIONS - WITHIN THE UNITED STATES
VARIOUS LOCATIONS - OUTSIDE THE UNITED STATES

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

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

4. PROJECT TITLE	5. PROJECT NUMBER
PROJECTS $1 MILLION AND UNDER	

STATE AND LOCATION	PROJECT TITLE	COST ($000)
ALASKA		
KING SALMON APT (PAF) MFJF943102 911-146	LAND ACQUISITION	900

Land acquisition. (Current Mission) This acquisition is required for the remediation of land contaminated with Petroleum, Oils, and Lubricants. The remediation of this land is required under the Comprehensive Environmental, Compensation, and Liability Act of 1990. The land and three private homes are being contaminated by Air Force owned barrels containing petroleum, oils, lubricants and other associated waste. Buried barrels are releasing contamination into the groundwater and wetlands below the bluff. Purchasing the land allows the Air Force to establish measures to properly contain the contamination. After purchase of this property, the Air Force will use a DERA funded project to cap the land and provide a long term monitoring program to regulate the contamination. The total cost of a follow-on DERA funded project is $3.1 Million. The follow-on DERA project will not be executed unless the land is under Air Force control. The contamination will continue to reach groundwater, wetlands, and other surface waters (Salmon Creek). Currently, no notices of violation have been issued; however, the Air Force will remain in violation of the Alaska Department of Environmental Conservation Solid Waste, Water Quality, and Oil & Hazardous Substances Regulations.

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

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

4. PROJECT TITLE	5. PROJECT NUMBER
PROJECTS $1 MILLION AND UNDER	

STATE AND LOCATION	PROJECT TITLE	COST ($000)
GEORGIA		
MOODY AFB (ACC) QSEU972500 831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1000

Construct industrial wastewater pretreatment facilities. (Current Mission) This is a Level II environmental compliance project. Moody AFB is subject to the pretreatment standards of the Clean Water Act administered through the National Pollutant Discharge Elimination System (NPDES) Permit issued by the State of Georgia, Department of Natural Resources, Environmental Protection Division. Amendments to the CWA as well as the anti-back sliding provision of the NPDES make it increasingly difficult for Moody AFB to maintain full compliance with its NPDES Permit. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative. The project is programmed to pretreat industrial effluent from approximately 10 facilities. Moody AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into Beatty Creek which flows into the Suwanee River Basin. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic removal. On-going pollution prevention and product substitution initiatives are decreasing the total volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facilities. Enforcement actions will increase as it becomes more difficult for Moody AFB to maintain compliance with its NPDES Permit. Non-compliance with the NPDES Permit will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day. 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

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

4. PROJECT TITLE	5. PROJECT NUMBER
PROJECTS $1 MILLION AND UNDER	

STATE AND LOCATION	PROJECT TITLE	COST ($000)
LOUISIANA		
BARKSDALE AFB (ACC) AWUB972500 831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1000

Construct industrial wastewater pretreatment facilities. (Current Mission) This is a Level II environmental compliance project. Barksdale is subject to the pretreatment standards of the Clean Water Act administered through the Industrial User Permit issued by the City of Bossier City, LA, Utilities Department. Amendments to the CWA as well as the anti-back sliding provision of the National Pollution Discharge Elimination System (NPDES) make it increasingly difficult for Barksdale AFB to maintain full compliance with its Industrial User Permit. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative. This project is programmed to pretreat industrial effluent from approximately 10 facilities. Barksdale AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into Bossier City sanitary sewer which ultimately discharges into the Red River. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic removal. On-going pollution prevention and product substitution initiatives are decreasing the total volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facilities. Enforcement actions will increase as it becomes more difficult for Barksdale AFB to maintain compliance with its Industrial User Permit. Non-compliance with the Industrial User Permit will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day. 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

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

4. PROJECT TITLE	5. PROJECT NUMBER
PROJECTS $1 MILLION AND UNDER	

STATE AND LOCATION	PROJECT TITLE	COST ($000)
NORTH CAROLINA		
POPE AFB (ACC) TMKH972500 831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1000

Construct industrial wastewater pretreatment facilities. (Current Mission) This is a Level II environmental compliance project. Pope is subject to the pretreatment standards of the Clean Water Act (CWA) administered through Fort Bragg. Amendments to the CWA as well as the anti-back sliding provision of the National Pollution Discharge Elimination System (NPDES) make it increasingly difficult for Pope AFB to maintain full compliance with the law. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative. The project is programmed to pretreat industrial effluent from approximately 10 facilities. Pope AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into Fort Bragg sanitary sewer which ultimately discharges into the Little River. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic removal. On-going pollution prevention and product substitution initiatives are decreasing the total volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facilities. Enforcement actions will increase as it becomes more difficult for Pope AFB to maintain compliance with the law. Non-compliance with the law will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day. 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

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

4. PROJECT TITLE	5. PROJECT NUMBER
PROJECTS $1 MILLION AND UNDER	

STATE AND LOCATION	PROJECT TITLE	COST ($000)
SOUTH CAROLINA		
SHAW AFB (ACC) VLSB972500 831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1000

Construct industrial wastewater pretreatment facilities. (Current Mission) This is a level II environmental compliance project. Shaw AFB is subject to the pretreatment standards of the Clean Water Act (CWA) administered through the Water Pollution Control Permit issued by the South Carolina Department of Health and Environmental Control, Bureau of Water Pollution Control, Division of Waster Quality and Assessment. Amendments to the CWA as well as the anti-back sliding provision of the National Pollutant Discharge Elimination System (NPDES) make it increasingly difficult for Shaw AFB to maintain full compliance with its Water Pollution Control Permit. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative to the proposed pretreatment facilities. The project is programmed to pretreat industrial effluent from approximately 10 facilities. Shaw AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into Beech Creek which flows into the Wateree River. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to verymodest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic removal. On-going pollution prevention and product substitution initiatives are decreasing the total volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facilities. Enforcement actions will increase as it becomes more difficult for Shaw AFB to maintain compliance with its Water Pollution Control Permit. Non-compliance with the Water Pollution Control Permit will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day. 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

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

4. PROJECT TITLE	5. PROJECT NUMBER
PROJECTS $1 MILLION AND UNDER	

STATE AND LOCATION	PROJECT TITLE	COST ($000)
VIRGINIA		
LANGLEY AFB (ACC) MUHJ972500 831-155	INDUSTRIAL WASTEWATER PRETREATMENT FACILITIES	1000

Construct industrial wastewater pretreatment facilities. (Current Mission) This is a Level II environmental compliance project. Langley AFB is subject to the pretreatment standards of the Clean Water Act (CWA) administered through the Industrial Wastewater Discharge Permit issued by the Hampton Roads Sanitary District (HRSD). Amendments to the CWA as well as the anti-back sliding provision of the National Pollution Discharge Elimination System (NPDES) make it increasingly difficult for Langley AFB to maintain full compliance with its Industrial Wastewater Discharge Permit. Reauthorization of the CWA in 1995 will require compliance with stricter permit limits by 1999. This construction project will construct modern pretreatment facilities for those mission essential industrial flows for which there is no viable alternative. The project is programmed to pretreat industrial effluent from approximately 10 facilities. Langley AFB uses a combination of gravity oil/water separators, silver recovery units, bar screens and comminutors to pretreat its wastewater discharge into HRSD sewer system which discharges into the York River. Many oil/water separators are mismatched for their intended purpose. Silver recovery units are ion specific and are restricted to very modest flows. Bar screens and comminutors are designed to protect pumps and are of no value for heavy metal and toxic organic removal. On-going pollution prevention and product substitution initiatives are decreasing the total volume of industrial flow entering the sanitary sewer, but there are some mission essential industrial wastewater discharges for which there is no viable alternative to the proposed pretreatment facilities. Enforcement actions will increase as it becomes more difficult for Langley AFB to maintain compliance with its Industrial Wastewater Discharge Permit. Non-compliance with the Industrial Wastewater Discharge Permit will strain relations with the host community, create an environmental threat and can lead to fines and penalties up to $25,000 per day. 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".

DEFENSE BUSINESS OPERATIONS FUND (DBOF)

THE FOLLOWING IS A SPECIAL SECTION ON DBOF PROJECTS THAT ARE INCLUDED IN THE AIR FORCE FY 1997 MILITARY CONSTRUCTION REQUEST. THERE IS ONLY ONE PROJECT WHICH IS ALSO INCLUDED IN THE DD FORMS 1390 AND 1391 THAT ARE IN THE FRONT PART OF THIS VOLUME.

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 FACILITY (DBOF)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
7.28.96	214-425	WWYK953005	8,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED VEHICLE MAINTENANCE FACILITY (DBOF)	SF	168,000		5,724
VEHICLE MAINTENANCE SHOP	SF	52,000	90	(4,680)
ALTER DEPOT METALS SHOP	SF	116,000	9	(1,044)
SUPPORTING FACILITIES				1,710
UTILITIES	LS			(350)
PAVEMENTS	LS			(225)
SITE IMPROVEMENTS	LS			(100)
DEMOLITION	SF	121,000	5	(605)
ASBESTOS ABATEMENT	LS			(430)
SUBTOTAL				7,434
CONTINGENCY (5%)				372
TOTAL CONTRACT COST				7,806
SUPERVISION, INSPECTION AND OVERHEAD (6%)				468
TOTAL REQUEST				8,274
TOTAL REQUEST (ROUNDED)				8,300

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. Also includes building demolition, associated asbestos abatement and necessary support.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 168,000 SF ADEQUATE: 0 SUBSTANDARD: 289,000 SF
PROJECT: Construct a consolidated vehicle maintenance facility. (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 utilities 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 depot plant supporting structures. Also 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 wood 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. The roofs of these metals shops leak and the buildings waste energy

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 FACILITY (DBOF)	WWYK953005

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, this facility is adequate for use as a consolidated metals and fabrication shop. Completion of this project will allow demolition of one building totalling 121,000 square feet.
IMPACT IF NOT PROVIDED: The opportunity to support downsizing efforts and increase production efficiency will be lost. Maintenance and repair of an outdated wooden warehouse in the airfield clear zone will continue. Separate metals shops will continue to duplicate operations.
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.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

FY 1997 NARRATIVE SUMMARY

This Military Family Housing request supports the policy that excellent housing facilities be provided for all military members and their families and 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, military family housing will meet contemporary community living standards. Our housing inventory is operated and maintained at a standard that protects from deterioration, and maintains the quality level established by previous Congressional appropriations. 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. In the era of downsizing, 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 reduce operating costs.

This budget provides a balanced program between construction, operations, maintenance, and leasing. Construction projects will replace worn-out and substandard homes in areas which violate airfield clearance and noise exposure criteria. We continue to propose projects to provide new support facilities at installations with the greatest need. The total 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 analysis indicates.

The operations, maintenance, and leasing accounts predominately support "must pay" requirements such as civilian pay, service contracts, lease contracts, utilities, and required maintenance to keep existing housing units from further deteriorating. The maintenance account also supports our goal to arrest the deferred maintenance and repair (DMAR) growth as much as possible within our fiscal constraints.

Also, the furnishings account provides for required government furniture overseas and initial issue of appliances to support new housing throughout the Air Force.

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		$161,531
Post-Acquisition Construction		87,817
Design and Advance Planning		9,590
Appropriation Request: Construction		$258,938
Operations, Utilities and Maintenance		$739,079
Operating Expenses	127,855	
Utilities	196,957	
Maintenance	414,267	
Leasing - Worldwide		$118,048
Debt Payment		
Debt Reduction	0	
Interest Payments	0	
Servicemen's Mortgage Insurance Premiums	30	
SUBTOTAL		30
Appropriation Request: O&M Leasing, and Debt Payment		$857,157
Appropriation Request		$1,116,095
Reimbursement Program		$13,286
FY 1997 Family Housing Program		$1,129,381

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	$22,029,000
	Eielson AFB	Housing Fire Station	$ 2,950,000
California	Beale AFB	80 Units	$ 9,649,000
	Edwards AFB	60 Units	$ 9,413,000
	Travis AFB	70 Units	$ 8,631,000
	Vandenberg AFB	138 Units	$19,499,000
District of Columbia	Bolling AFB	40 Units	$ 5,000,000
Florida	MacDill AFB	70 Units	$ 8,959,000
	Patrick AFB	35 Units	$ 3,103,000
Georgia	Robins AFB	60 Units	$ 5,763,000
Louisana	Barksdale AFB	108 Units	$10,092,000
Massachusetts	Hanscom AFB	32 Units	$ 4,875,000
Mississippi	Keesler AFB	76 Units	$ 6,500,000
Missouri	Whiteman AFB	76 Units	$ 9,451,000
Nebraska	Offutt AFB	Housing Office	$ 845,000

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

STATE	INSTALLATION	PURPOSE	AMOUNT
Nebraska (cont'd)	Offutt AFB	Housing Maintenance Facility	$ 874,000
New Mexico	Kirtland AFB	60 Units	$ 6,339,000
North Dakota	Grand Forks AFB	64 Units	$ 9,225,000
	Minot AFB	64 Units	$10,175,000
Texas	Lackland AFB	Housing Office	$ 450,000
	Lackland AFB	Housing Maintenance Facility	$ 350,000
Washington	McChord AFB	50 Units	$ 7,359,000

(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 $87,817,000.

SEC. 2304. AUTHORIZATION OF APPROPRIATIONS, AIR FORCE

(a) IN GENERAL

(5) for Military Family Housing functions -

(A) For construction and acquisition of military family housing and facilities, $258,938,000.

(B) For support of military family housing (including functions described in section 2833 of title 10, United States Code), $857,157,000 of which not more than $118,048,000 may be obligated or expended for leasing of military units worldwide.

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,[$249,003,000] $258,938,000, for Operations and Maintenance, and Debt Payment[$849,213,000] $857,157,000; in all [$1,098,216,000] $1,116,095,000: 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 1990

Identification code 57-7040-0-1-051		Budget Plan (amounts for FAMILY HOUSING actions programed)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
01.0201	Post Acquisition Construction				
01.0301	Planning and design				
01.9101	Total direct program				
10.0001	Total				
	Financing:				
17.0001	Recovery of prior year obligations				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-133			
21.4009	Reprograming from/to prior year budget plans	133			
25.0001	Unobligated balance expiring				
39.0001	Budget authority				

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1990

Identification code 57-7040-0-1-051	Obligations			
	1994 actual	1995 est.	1996 est.	1997 est.
Program by activities:				
Direct program:				
01.0201 Post Acquisition Construction	2,593			
01.0301 Planning and design	451			
01.9101 Total direct program	3,044			
10.0001 Total	3,044			
Financing:				
17.0001 Recovery of prior year obligations	-159			
Unobligated balance available, start of year:				
21.4002 For completion of prior year budget plans	-3,018			
21.4009 Reprograming from/to prior year budget plans				
25.0001 Unobligated balance expiring	133			
39.0001 Budget authority				

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)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
01.0101	Construction of new housing				
01.0201	Post Acquisition Construction				
01.0301	Planning and design				
01.9101	Total direct program				
10.0001	Total				
	Financing:				
17.0001	Recovery of prior year obligations				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				
21.4009	Reprograming from/to prior year budget plans	-951			
22.0001	Unobligated balance transferred to other accounts	951			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
39.0001	Budget authority				

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

Identification code 57-7040-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
01.0101	Construction of new housing	107	1,929		
01.0201	Post Acquisition Construction	6,620	4,949		
01.0301	Planning and design	2,038			
01.9101	Total direct program	8,765	6,878		
10.0001	Total	8,765	6,878		
	Financing:				
17.0001	Recovery of prior year obligations	-2,842			
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-13,752	-6,878		
21.4009	Reprograming from/to prior year budget plans				
22.0001	Unobligated balance transferred to other accounts	951			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	6,878			
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)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
01.0101	Construction of new housing				
01.0201	Post Acquisition Construction				
01.0301	Planning and design				
01.9101	Total direct program				
10.0001	Total				
	Financing:				
17.0001	Recovery of prior year obligations				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-6,400			
21.4003	Available to finance new budget plans	-2,068			
21.4009	Reprograming from/to prior year budget plans	2,068			
22.0001	Unobligated balance transferred to other accounts				
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
40.0001	Budget authority (Appropriation rescinded) (	-6,400			

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

Identification code 57-7040-0-1-051	Obligations			
	1994 actual	1995 est.	1996 est.	1997 est.
Program by activities:				
Direct program:				
01.0101 Construction of new housing	1,698	1,303	1,459	
01.0201 Post Acquisition Construction	18,806	5,560	18,488	
01.0301 Planning and design	577	300		
01.9101 Total direct program	21,081	7,163	19,947	
10.0001 Total	21,081	7,163	19,947	
Financing:				
17.0001 Recovery of prior year obligations	-10,374			
Unobligated balance available, start of year:				
21.4002 For completion of prior year budget plans	-39,885	-27,110	-19,947	
21.4003 Available to finance new budget plans	-6,400			
21.4009 Reprograming from/to prior year budget plans				
22.0001 Unobligated balance transferred to other accounts	2,068			
Unobligated balance available, end of year:				
24.4002 For completion of prior year budget plans	27,110	19,947		
40.0001 Budget authority (Appropriation rescinded) (	-6,400			

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) 1994 actual	1995 est.	1996 est.	1997 est.
Program by activities:				
Direct program:				
01.0101 Construction of new housing				
01.0201 Post Acquisition Construction				
01.0301 Planning and design				
01.9101 Total direct program				
10.0001 Total				
Financing:				
17.0001 Recovery of prior year obligations				
Unobligated balance available, start of year:				
21.4002 For completion of prior year budget plans				
21.4003 Available to finance new budget plans	-48,702			
21.4009 Reprograming from/to prior year budget plans	-10,000			
22.0001 Unobligated balance transferred to other accounts	10,000			
Unobligated balance available, end of year:				
24.4002 For completion of prior year budget plans				
40.0001 Budget authority (Appropriation rescinded) (	-48,702			

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

Identification code 57-7040-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
01.0101	Construction of new housing	21,623	12,999	5,736	1,351
01.0201	Post Acquisition Construction	44,179	10,463	1,395	2,422
01.0301	Planning and design	3,122	559	75	
01.9101	Total direct program	68,924	24,021	7,206	3,773
10.0001	Total	68,924	24,021	7,206	3,773
	Financing:				
17.0001	Recovery of prior year obligations	-2,435			
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-111,489	-35,000	-10,979	-3,773
21.4003	Available to finance new budget plans	-48,702			
21.4009	Reprograming from/to prior year budget plans				
22.0001	Unobligated balance transferred to other accounts	10,000			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	35,000	10,979	3,773	
40.0001	Budget authority (Appropriation rescinded) (	-48,702			

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)			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
01.0101	Construction of new housing	102,064			
01.0201	Post Acquisition Construction	75,070			
01.0301	Planning and design	11,901			
01.9101	Total direct program	189,035			
10.0001	Total	189,035			
	Financing:				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-2,000			
22.0001	Unobligated balance transferred to other accounts				
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
40.0001	Budget authority (Appropriation)	187,035			

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

Identification code 57-7040-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
01.0101	Construction of new housing	57,872	31,197	5,645	4,165
01.0201	Post Acquisition Construction	59,128	10,524	4,507	911
01.0301	Planning and design	4,623	1,190	1,190	595
01.9101	Total direct program	121,623	42,911	11,342	5,671
10.0001	Total	121,623	42,911	11,342	5,671
	Financing:				
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans		-67,412	-24,501	-13,159
22.0001	Unobligated balance transferred to other accounts	-2,000			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	67,412	24,501	13,159	7,488
40.0001	Budget authority (Appropriation)	187,035			

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

Identification code 57-7040-0-1-051	1994 actual	Budget Plan (amounts for FAMILY HOUSING actions programed) 1995 est.	1996 est.	1997 est.
Program by activities:				
Direct program:				
01.0101 Construction of new housing		206,399		
01.0201 Post Acquisition Construction		61,770		
01.0301 Planning and design		9,275		
01.9101 Total direct program		277,444		
03.0101 Reimbursable Program		110		
10.0001 Total		277,554		
Financing:				
Offsetting collections from:				
11.0001 Federal funds(-)		-110		
Unobligated balance available, start of year:				
21.4002 For completion of prior year budget plans				
Unobligated balance available, end of year:				
24.4002 For completion of prior year budget plans				
40.0001 Budget authority (Appropriation)		277,444		

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

Identification code 57-7040-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
01.0101	Construction of new housing		119,864	47,459	20,650
01.0201	Post Acquisition Construction		28,414	21,002	6,177
01.0301	Planning and design		4,267	928	928
01.9101	Total direct program		152,545	69,389	27,755
03.0101	Reimbursable Program		110		
10.0001	Total		152,655	69,389	27,755
	Financing:				
	Offsetting collections from:				
11.0001	Federal funds(-)		-110		
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans			-124,899	-55,510
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans		124,899	55,510	27,755
40.0001	Budget authority (Appropriation)		277,444		

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

Identification code 57-7040-0-1-051	1994 actual	Budget Plan (amounts for FAMILY HOUSING actions programed) 1995 est.	1996 est.	1997 est.
Program by activities:				
Direct program:				
01.0101 Construction of new housing			154,955	
01.0201 Post Acquisition Construction			85,059	
01.0301 Planning and design			8,989	
01.9101 Total direct program			249,003	
03.0101 Reimbursable Program			260	
10.0001 Total			249,263	
Financing:				
Offsetting collections from:				
11.0001 Federal funds(-)			-260	
Unobligated balance available, start of year:				
21.4002 For completion of prior year budget plans				
Unobligated balance available, end of year:				
24.4002 For completion of prior year budget plans				
40.0001 Budget authority (Appropriation)			249,003	

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

Identification code 57-7040-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
01.0101	Construction of new housing			92,084	33,987
01.0201	Post Acquisition Construction			40,616	27,430
01.0301	Planning and design			4,135	899
01.9101	Total direct program			136,835	62,316
03.0101	Reimbursable Program			260	
10.0001	Total			137,095	62,316
	Financing:				
	Offsetting collections from:				
11.0001	Federal funds(-)			-260	
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans				-112,168
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans			112,168	49,852
40.0001	Budget authority (Appropriation)			249,003	

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) 1994 actual	1995 est.	1996 est.	1997 est.
Program by activities:				
Direct program:				
01.0101 Construction of new housing				161,531
01.0201 Post Acquisition Construction				87,817
01.0301 Planning and design				9,590
01.9101 Total direct program				258,938
03.0101 Reimbursable Program				270
10.0001 Total				259,208
Financing:				
Offsetting collections from:				
11.0001 Federal funds(-)				-270
Unobligated balance available, end of year:				
24.4002 For completion of prior year budget plans				
40.0001 Budget authority (Appropriation)				258,938

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

Identification code 57-7040-0-1-051	Obligations			
	1994 actual	1995 est.	1996 est.	1997 est.
Program by activities:				
Direct program:				
01.0101 Construction of new housing				97,577
01.0201 Post Acquisition Construction				40,306
01.0301 Planning and design				4,411
01.9101 Total direct program				142,294
03.0101 Reimbursable Program				270
10.0001 Total				142,564
Financing:				
Offsetting collections from:				
11.0001 Federal funds(-)				-270
Unobligated balance available, end of year:				
24.4002 For completion of prior year budget plans				116,644
40.0001 Budget authority (Appropriation)				258,938

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

Identification code 57-7040-0-1-051	1994 actual	Budget Plan (amounts for FAMILY HOUSING actions programed) 1995 est.	1996 est.	1997 est.
Program by activities:				
Direct program:				
01.0101 Construction of new housing	102,064	206,399	154,955	161,531
01.0201 Post Acquisition Construction	75,070	61,770	85,059	87,817
01.0301 Planning and design	11,901	9,275	8,989	9,590
01.9101 Total direct program	189,035	277,444	249,003	258,938
03.0101 Reimbursable Program		110	260	270
10.0001 Total	189,035	277,554	249,263	259,208
Financing:				
Offsetting collections from:				
11.0001 Federal funds(-)		-110	-260	-270
17.0001 Recovery of prior year obligations				
Unobligated balance available, start of year:				
21.4002 For completion of prior year budget plans	-55,102			
21.4003 Available to finance new budget plans	-13,152			
21.4009 Reprograming from/to prior year budget plans	11,019			
22.0001 Unobligated balance transferred to other accounts				
Unobligated balance available, end of year:				
24.4002 For completion of prior year budget plans	133			
25.0001 Unobligated balance expiring				
40.0001 Budget authority (Appropriation)	131,933	277,444	249,003	258,938
Relation of obligations to outlays:				
71.0001 Obligations incurred				
72.4001 Obligated balance, start of year				
74.4001 Obligated balance, end of year				
77.0001 Adjustments in expired accounts (net)				
78.0001 Adjustments in unexpired accounts				
90.0001 Outlays (net)				

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

Identification code 57-7040-0-1-051		Obligations			
		1994 actual	1995 est.	1996 est.	1997 est.
	Program by activities:				
	Direct program:				
01.0101	Construction of new housing	81,300	167,292	152,383	157,730
01.0201	Post Acquisition Construction	131,326	59,910	86,008	77,246
01.0301	Planning and design	10,811	6,316	6,328	6,833
01.9101	Total direct program	223,437	233,518	244,719	241,809
03.0101	Reimbursable Program		110	260	270
10.0001	Total	223,437	233,628	244,979	242,079
	Financing:				
	Offsetting collections from:				
11.0001	Federal funds(-)		-110	-260	-270
17.0001	Recovery of prior year obligations	-15,810			
	Unobligated balance available, start of year:				
21.4002	For completion of prior year budget plans	-168,144	-136,400	-180,326	-184,610
21.4003	Available to finance new budget plans	-55,102			
21.4009	Reprograming from/to prior year budget plans				
22.0001	Unobligated balance transferred to other accounts	11,019			
	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	136,400	180,326	184,610	201,739
25.0001	Unobligated balance expiring	133			
40.0001	Budget authority (Appropriation)	131,933	277,444	249,003	258,938
	Relation of obligations to outlays:				
71.0001	Obligations incurred	223,437	233,518	244,719	241,809
72.4001	Obligated balance, start of year	334,057	270,945	305,771	344,394
74.4001	Obligated balance, end of year	-270,945	-305,771	-344,394	-358,970
77.0001	Adjustments in expired accounts (net)	-10,321			
78.0001	Adjustments in unexpired accounts	-15,810			
90.0001	Outlays (net)	260,417	198,692	206,096	227,233

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

Identification code 57-7040-0-1-051	1994 actual	1995 est.	1996 est.	1997 est.
Direct obligations:				
132.001 Land and structures	223,437	233,518	244,719	241,809
199.001 Total Direct obligations	223,437	233,518	244,719	241,809
Reimbursable obligations:				
232.001 Land and structures		110	260	270
299.001 Total Reimbursable obligations		110	260	270
999.901 Total obligations	223,437	233,628	244,979	242,079

Family Housing Operations & Debt, AF
Program and Financing (in Thousands of dollars)

Identification code 57-7045-0-1-051	1994 actual	1995 est.	1996 est.	1997 est.
Program by activities:				
Direct program:				
02.0101 Operating expenses	301,740	304,918	324,548	324,812
02.0201 Leasing	102,173	112,757	115,665	118,048
02.0301 Maintenance of real property	392,287	407,144	408,971	414,267
02.0501 Mortgage insurance premiums	21	26	29	30
02.9101 Total direct program	796,221	824,845	849,213	857,157
03.0101 Reimbursable Program	10,422	13,331	13,151	13,286
10.0001 Total obligations	806,643	838,176	862,364	870,443
Financing:				
Offsetting collections from:				
11.0001 Federal funds(-)	-1,160	-3,707	-3,714	-3,740
14.0001 Non-Federal sources(-)	-9,262	-9,624	-9,437	-9,546
22.0001 Unobligated balance transferred from other accounts (-)	-14,712			
25.0001 Unobligated balance expiring	9,403			
40.0001 Budget authority (Appropriation)	790,912	824,845	849,213	857,157
Relation of obligations to outlays:				
71.0001 Obligations incurred	796,221	824,845	849,213	857,157
72.1001 Receivables from other government accts. SOY	-291	-264		
72.4001 Obligated balance, start of year	446,880	375,351	407,780	431,512
74.1001 Receivables from other government accts, EOY	264			
74.4001 Obligated balance, end of year	-375,351	-407,780	-431,512	-445,736
77.0001 Adjustments in expired accounts (net)	-21,600			
90.0001 Outlays (net)	846,123	792,152	825,481	842,933

Family Housing Operations & Debt, AF
Object Classification (in Thousands of dollars)

Identification code 57-7045-0-1-051		1994 actual	1995 est.	1996 est.	1997 est.
	Direct obligations:				
121.001	Travel and transportation of persons	1,035	1,021	1,041	1,070
122.001	Transportation of things	164	164	170	176
123.201	Rental payments to others	77,826	74,182	104,693	110,416
	Other services with the private sector				
125.203	Contracts with the private sector	113,129	114,390	112,088	114,308
125.204	Other charges with the private sector	556,337	581,230	575,332	575,780
	Purchases goods/services (inter/intra) Fed accounts				
125.302	Payments to foreign national indirect hire personnel	2	2	2	2
126.001	Supplies and materials	29,381	34,880	36,288	35,084
131.001	Equipment	14,794	15,284	15,792	16,361
132.001	Land and structures	3,553	3,692	3,807	3,960
199.001	Total Direct obligations	796,221	824,845	849,213	857,157
	Reimbursable obligations:				
	Other services with the private sector				
225.204	Other charges with the private sector	10,422	13,331	13,151	13,286
299.001	Total Reimbursable obligations	10,422	13,331	13,151	13,286
999.901	Total obligations	806,643	838,176	862,364	870,443

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.

NEW CONSTRUCTION

LOCATION	MISSION	NUMBER OF UNITS	REQUESTED AUTHORIZATION AMOUNT ($000)
Whiteman AFB MO	New	76	9,451
REPLACEMENT HOUSING			
Eielson AFB AK	Current	72	22,029
Beale AFB CA	Current	80	9,649
Edwards AFB CA	Current	60	9,413
Travis AFB CA	Current	70	8,631
Vandenberg AFB CA	Current	138	19,499
Bolling AFB DC	Current	40	5,000
MacDill AFB FL	Current	70	8,959
Patrick AFB FL	Current	35	3,103
Robins AFB GA	Current	60	5,763
Barksdale AFB LA	Current	108	10,092
Hanscom AFB MA	Current	32	4,875
Keesler AFB MS	Current	76	6,500
Kirtland AFB NM	Current	60	6,339
Grand Forks AFB ND	Current	64	9,225
Minot AFB ND	Current	64	10,175
McChord AFB WA	Current	50	7,359

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

SUPPORT FACILITIES

Eielson AFB AK	Current HSG Fire Station	2,950
Offutt AFB NE	Current HSG Offc	845
Offutt AFB NE	Current HSG Maint Facility	874
Lackland AFB TX	Current HSG Offc	450
Lackland AFB TX	Current HSG Maint Facility	350
NEW MISSION TTL		9,451
CURRENT MISSION TOTAL		152,080
IMPROVEMENTS		87,817
PLANNING AND DESIGN		9,590

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

NEW CONSTRUCTION

Program (In Thousands)
FY 1997 Program $161,531
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 76 new units, replacement of 1,079 units and 5 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			
Whiteman AFB MO	New	76	9,451
REPLACEMENT HOUSING			
Eielson AFB AK	Current	72	22,029
Beale AFB CA	Current	80	9,649
Edwards AFB CA	Current	60	9,413
Travis AFB CA	Current	70	8,631
Vandenberg AFB CA	Current	138	19,499
Bolling AFB DC	Current	40	5,000
MacDill AFB FL	Current	70	8,959
Patrick AFB FL	Current	35	3,103
Robins AFB GA	Current	60	5,763
Barksdale AFB LA	Current	108	10,092
Hanscom AFB MA	Current	32	4,875
Keesler AFB MS	Current	76	6,500
Kirtland AFB NM	Current	60	6,339
Grand Forks AFB ND	Current	64	9,225
Minot AFB ND	Current	64	10,175
McChord AFB WA	Current	50	7,359

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

SUPPORT FACILITIES		
Eielson AFB AK	Current Hsg Fire Station	2,950
Offutt AFB NE	Current Hsg Office	845
Offutt AFB NE	Current Hsg Maint Fac	874
Lackland AFB TX	Current Hsg Office	450
Lackland AFB TX	Current Hsg Maint Fac	350
New Mission		9,451
Current Mission Total		152,080
Improvements		87,817
Planning and Design		9,590
Grand Total		258,938

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			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
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:	24,979
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	503,094

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		
711-142	REPLACE FAMILY HOUSING (PHASE 3)	72 UN	22,029	TURN KEY	
		TOTAL:	24,979		

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	22,029

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
	UN	72	199,047	14,331
SUPPORTING FACILITIES				5,555
SITE PREPARATION	LS			(405)
ROADS AND PAVING	LS			(525)
UTILITIES	LS			(660)
LANDSCAPING	LS			(215)
GARAGES AND UTILIDOR	LS			(1,200)
DEMOLITION & ENVIRONMENTAL COMPLIANCE	LS			(2,550)
SUBTOTAL				19,886
CONTINGENCY (5%)				994
TOTAL CONTRACT COST				20,880
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				1,148
TOTAL REQUEST				22,029
AREA COST FACTOR 1.97				

10. Description of Proposed Construction: Construct 72 JNCO replacement housing units, 64 three-bedroom and 8 four-bedroom, in accordance with the Housing Comunity Plan (HCP); with all associated supporting construction, community development, and landscaping. Demolish 13 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	$/ NSF	NO. UNITS	TOTAL COST
JNCO 3BR	1500	1.93	68	64	12,599,040
JNCO 4BR	1650	1.93	68	8	1,732,368
				72	14,331,408

11. REQUIREMENT: 2,057 UN ADEQUATE: 1,383 UN SUBSTANDARD: 687 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. 303 units have been replaced/upgraded or are approved in previous phases and 687 units remain to be replaced/upgraded.

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

CURRENT SITUATION: Existing eight-plex units, built in 1953, are too 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		
5. DATA AS OF 1993	a. NAME EIELSON AIR FORCE BASE	b. LOCATION FAIRBANKS, ALASKA	

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	300	2,128	523	2,951	274	1,954	671	2,899
7. PERMANENT PARTY PERSONNEL	300	2,128	523	2,951	274	1,954	671	2,899
8. GROSS FAMILY HOUSING REQUIREMENTS	228	1,783	266	2,277	209	1,568	337	2,114
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	11	164	37	212				
a. INVOLUNTARILY SEPARATED	0	12	0	12				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	11	152	37	200				
10. VOLUNTARY SEPARATIONS	4	55	3	62	4	49	4	57
11. EFFECTIVE HOUSING REQUIREMENTS	228	1,783	266	2,277	205	1,519	333	2,057
12. HOUSING ASSETS (a + b)	245	1,616	243	2,104	212	1,518	340	2,070
a. UNDER MILITARY CONTROL	113	1,101	86	1,300	151	1,505	0	1,656
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	89	1,080	78	1,247	151	1,505	0	1,656
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	24	21	8	53				
b. PRIVATE HOUSING	132	515	157	804	61	13	340	414
(1) ACCEPTABLY HOUSED	124	484	148	756				
(2) ACCEPTABLE VACANT RENTAL	8	31	9	48				
13. EFFECTIVE HOUSING DEFICIT	7	188	31	226	(7)	1	(7)	(13)
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	SF	8,500	240	2,040
SUPPORTING FACILITIES				623
UTILITIES & UTILIDOR	LS			(300)
SITE IMPROVEMENTS	LS			(108)
PARKING	EA	12	2,666	(32)
ROADS	LF	300	110	(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 Tons.

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 would add several minutes to the response time. Additional housing units

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

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	392	2750	435				1	18	137	3,733
b. End FY 2001	401	2927	567				1	18	137	4,051

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:	9,649
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:	237,224

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)	80 UN	9,649	TURN KEY	
		TOTAL:	9,649		

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 flying 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); and an Air Force Space Command missile warning squadron which operates one of the Phased Array Warning System (Pave PAWS) radars.

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	9,649

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE MILITARY FAMILY HOUSING--PH 2	UN	80	73,017	5,841
SUPPORTING FACILITIES				2,870
MISCELLANEOUS SUPPORT	LS			(258)
SITE PREPARATION	LS			(238)
ROADS AND PAVING	LS			(456)
UTILITIES	LS			(426)
LANDSCAPING AND NEIGHBORHOOD IMPROVMTS	LS			(241)
RECREATION	LS			(123)
GARAGES AND STORAGE	LS			(470)
DEMOLITION, ASBESTOS & LBP REMOVAL	LS			(658)
SUBTOTAL				8,711
CONTINGENCY (5%)				436
TOTAL CONTRACT COST				9,147
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				503
TOTAL REQUEST				9,649
AREA COST FACTOR 1.24				

10. Description of Proposed Construction: Replace 80 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	$/ NSF	NO. UNITS	TOTAL COST
JNCO 2BR	950	1.26	61	80	5,841,360
				80	5,841,360

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. However, since revitalization exceeded 70% of the replacement value of the houses, replacement construction was selected. 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 31 JANUARY 1992			

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	574	2,609	987	4,170	1,414	2,404	1,040	4,858
7. PERMANENT PARTY PERSONNEL	574	2,609	987	4,170	1,414	2,404	1,040	4,858
8. GROSS FAMILY HOUSING REQUIREMENTS	211	1,264	237	1,712	728	1,674	227	2,529
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	211	1,264	237	1,712	728	1,674	227	2,529
12. HOUSING ASSETS (a + b)	898	1,489	237	2,624	898	1,489	237	2,624
a. UNDER MILITARY CONTROL	211	1,264	237	1,712	211	1,264	237	1,712
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	211	1,264	237	1,712	211	1,264	237	1,712
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	687	225	0	912	687	225	0	912
(1) ACCEPTABLY HOUSED								
(2) ACCEPTABLE VACANT RENTAL								
13. EFFECTIVE HOUSING DEFICIT	0	0	0	0	(130)	85	(10)	(55)
14. PROPOSED PROJECT						80		80

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
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	671	3754	3493				27	51	862	8,858
b. End FY 2001	650	3384	3264				27	51	862	8,238

7. INVENTORY DATA ($000)

a. Total Acreage: (301,928)	
b. Inventory Total As Of: (30 SEP 95)	711,233
c. Authorization Not Yet In Inventory:	44,650
d. Authorization Requested In This Program:	9,413
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	765,296

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 1	60 UN	9,413	TURN KEY	
		TOTAL:	9,413		

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 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.

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	REPLACE FAMILY HOUSING, PHASE 1

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	711-142	FSPM9745071	9,413

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	60	94,682	5,681
SUPPORTING FACILITIES				2,816
SITE PREPARATION	LS			(394)
ROADS AND PAVING	LS			(476)
UTILITIES	LS			(594)
LANDSCAPING	LS			(161)
RECREATION	LS			(280)
DEMOLITION AND ENVIRONMENTAL	LS			(912)
SUBTOTAL				8,497
CONTINGENCY (5%)				425
TOTAL CONTRACT COST				8,922
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				491
TOTAL REQUEST				9,413
AREA COST FACTOR 1.38				

10. Description of Proposed Construction: Replace 60 Wherry JNCO units. Construct housing units with gable roofs, road/sidewalks, driveway, attached single car garage, and exterior wooden storage shed. Install evaporative coolers. Includes electrical, mechanical, structural, and architectural work. Provide irrigation system in common areas. Remove asbestos from existing units.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSF	NO. UNITS	TOTAL COST
JNCO 2BR	950	1.39	61	20	1,611,010
JNCO 3BR	1200	1.39	61	40	4,069,920
				60	5,680,930

11. REQUIREMENT: 2,411 UN ADEQUATE: 994 UN SUBSTANDARD: 1,393 UN
PROJECT: Replace 60 Wherry Family Housing units. (Current Mission)
REQUIREMENT: This project is required to provide quality of life improvements and energy efficient housing units to the existing area to enhance standards of livability for the residents. All units will meet "whole house" standards and are programmed in accordance with Phase 2 of the Housing Community Plan. Irrigation systems in common are required to provide a usable and aesthetic environment for the neighborhood. Replacement of housing will provide a safe, comfortable living environment comparable to the off-base civilian community. This is the first of multiple phases to provide adequate housing for base personnel. Of the 549 housing units to be replaced in this multi-phase initiative, none are completed or included in prior programs, and 489 will follow in subsequent phases.

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
REPLACE FAMILY HOUSING, PHASE 1	FSPM9745071

CURRENT SITUATION: These family housing units were originally built in the 1950's. They have not received any major renovations since that time period. The two bedroom units are more than 120 Net Square Feet under the authorized net floor area. The three bedroom units lack entry foyers and have at least one undersized bedroom. The harsh environment has taken its toll and the units have deteriorated beyond economical repair. Asbestos-containing building materials contribute significantly to the extremely high repair cost. The exteriors of these facilities have deteriorated to the point that all wooden surfaces need to be replaced. Plumbing and electrical systems are in such poor repair that constant maintenance is required to maintain operability. This housing area is very congested and presents a traffic flow safety hazard when cars park on the streets because the units lack carports and garages.

IMPACT IF NOT PROVIDED: The harsh desert environment will continue to take its toll on these old and deteriorated units. Asbestos will continue to limit maintainability and future repair costs will be exorbitant due to environmental abatement requirements. Exterior surfaces will continue to deteriorate and huge maintenance costs will be incurred. Mechanical and electrical systems will fail, adding to the already heavy workload and high cost to maintain. The units will continue to be occupied until they become uninhabitable because adequate, affordable housing is not available. The current Housing Market Analysis shows a projected family housing deficit of 24 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, 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 EDWARDS AIR FORCE BASE	b. LOCATION LANCASTER, CALIFORNIA	
5. DATA AS OF 1992			

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	876	3,666	620	6,062	766	3,196	666	4,517
7. PERMANENT PARTY PERSONNEL	876	3,666	620	6,062	766	3,196	666	4,517
8. GROSS FAMILY HOUSING REQUIREMENTS	654	2,905	176	3,753	669	2,606	160	3,226
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	92	421	46	669				
a. INVOLUNTARILY SEPARATED	1	9	9	19				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	91	412	37	640				
10. VOLUNTARY SEPARATIONS	26	112	20	167	22	100	18	140
11. EFFECTIVE HOUSING REQUIREMENTS	654	2,905	176	3,753	647	2,406	132	3,086
12. HOUSING ASSETS (a + b)	643	2,306	116	2,866	486	2,074	88	2,648
a. UNDER MILITARY CONTROL	410	1,649	30	1,989	410	1,679	0	1,989
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	410	1,649	30	1,989	410	1,679	0	1,989
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	133	767	86	976	76	495	88	659
(1) ACCEPTABLY HOUSED	126	723	80	928				
(2) ACCEPTABLE VACANT RENTAL	8	34	6	48				
13. EFFECTIVE HOUSING DEFICIT	110	499	60	788	61	332	44	437
14. PROPOSED PROJECT						60		60

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	1176	6269	1985				21	165	117	9,733
b. End FY 2001	1257	6870	1979				21	165	117	10,409

7. INVENTORY DATA ($000)

a. Total Acreage: (6,922)	
b. Inventory Total As Of: (30 SEP 95)	455,159
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:	511,990

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	

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; the west coast Air Mobility Operations Center (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	80,869	5,661
SUPPORTING FACILITIES				2,131
EARTHWORK	LS			(484)
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	$/ NSF	NO. UNITS	TOTAL COST
JNCO 2BR	950	1.28	61	46	3,412,096
JNCO 3BR	1200	1.28	61	24	2,248,704
				70	5,660,800

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 XXX 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		
5. DATA AS OF 1993	a. NAME TRAVIS AIR FORCE BASE	b. LOCATION FAIRFIELD, CALIFORNIA	

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	1,078	4,453	1,320	6,851	1,211	4,998	1,494	7,703
7. PERMANENT PARTY PERSONNEL	1,078	4,453	1,320	6,851	1,211	4,998	1,494	7,703
8. GROSS FAMILY HOUSING REQUIREMENTS	726	3,275	364	4,365	813	3,665	411	4,889
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	71	507	27	605				
a. INVOLUNTARILY SEPARATED	1	5	0	6				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	70	502	27	599				
10. VOLUNTARY SEPARATIONS	16	91	18	125	16	100	20	136
11. EFFECTIVE HOUSING REQUIREMENTS	726	3,275	364	4,365	797	3,565	391	4,753
12. HOUSING ASSETS (a + b)	649	2,701	545	3,895	699	2,893	339	3,931
a. UNDER MILITARY CONTROL	274	1,720	472	2,466	274	1,911	281	2,466
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	273	1,720	248	2,241	274	1,911	281	2,466
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	1	0	224	225				
b. PRIVATE HOUSING	375	981	73	1,429	425	982	58	1,465
(1) ACCEPTABLY HOUSED	366	957	71	1,394				
(2) ACCEPTABLE VACANT RENTAL	9	24	2	35				
13. EFFECTIVE HOUSING DEFICIT	78	574	43	695	98	672	52	822
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	624	2419	1242							4,285
b. End FY 2001	608	2219	1157							3,984

7. INVENTORY DATA ($000)

a. Total Acreage: (98,830)	
b. Inventory Total As Of: (30 SEP 95)	1,118,383
c. Authorization Not Yet In Inventory:	32,528
d. Authorization Requested In This Program:	19,499
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	1,170,410

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	138 UN	19,499	TURN KEY	
		TOTAL:	19,499		

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; 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	19,499

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING, PHASE 4	UN	138	90,078	12,431
SUPPORTING FACILITIES				5,171
SITE PREPARATION	LS			(422)
ROADS AND PAVING	LS			(678)
UTILITIES	LS			(1,480)
LANDSCAPING	LS			(535)
RECREATION	LS			(329)
OTHER DEMOLITION, ASBESTOS/LEAD PAINT	LS			(1,727)
SUBTOTAL				17,602
CONTINGENCY (5%)				880
TOTAL CONTRACT COST				18,482
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				1,017
TOTAL REQUEST				19,499
AREA COST FACTOR 1.36				

10. Description of Proposed Construction: Replace 138 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, bulk storage, exterior patios, privacy fencing, neighborhood tot lots, recreation areas, parks, lights, & trails. Includes demolition & disposal of asbestos and lead-based paints.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSF	NO. UNITS	TOTAL COST
JNCO 2BR	950	1.35	61	67	5,241,578
JNCO 3BR	1200	1.35	61	57	5,632,740
JNCO 4BR	1350	1.35	61	14	1,556,415
				138	12,430,733

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. Also, basic neighborhood support infrastructure will be upgraded to modern standards. Neighborhood improvements will include landscaping, playgrounds, walks, handicap access ramps, signs, street lights, irrigation, recreation areas, fitness course and utility upgrades.
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 there is inadequate bulk storage. Kitchens have inefficient work space, poor circulation, worn out/insufficient cabinets. Bathroom fixtures, vanities, and appointments are worn and outmoded. Plumbing fixtures are worn and unattractive. Main and master baths are deteriorated and outdated, having shower enclosures and medicine cabinets which are corroded, discolored, and pitted. Additionally, 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. 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 (due to leaking overhead pipes) causing damage to the ceiling, 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.
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		
5. DATA AS OF 1992	a. NAME VANDENBERG AIR FORCE BASE	b. LOCATION LOMPOC, CALIFORNIA	

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	665	1,984	655	3,304	642	2,070	535	3,247
7. PERMANENT PARTY PERSONNEL	665	1,984	655	3,304	642	2,070	535	3,247
8. GROSS FAMILY HOUSING REQUIREMENTS	510	1,408	202	2,120	491	1,458	158	2,107
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	5	26	10	41				
a. INVOLUNTARILY SEPARATED	1	9	9	19				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	4	17	1	22				
10. VOLUNTARY SEPARATIONS	4	71	6	81	4	75	5	84
11. EFFECTIVE HOUSING REQUIREMENTS	510	1,408	202	2,120	487	1,383	153	2,023
12. HOUSING ASSETS (a + b)	574	1,508	214	2,296	556	1,553	180	2,289
a. UNDER MILITARY CONTROL	477	1,398	203	2,078	477	1,427	174	2,078
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	410	1,220	182	1,812	410	1,249	153	1,812
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	67	178	21	266				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	97	110	11	218	79	126	6	211
(1) ACCEPTABLY HOUSED	91	91	4	186				
(2) ACCEPTABLE VACANT RENTAL	6	19	7	32				
13. EFFECTIVE HOUSING DEFICIT	3	78	9	90	(69)	(170)	(27)	(266)
14. PROPOSED PROJECT					0	138	0	138

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	85,830	3,433
SUPPORTING FACILITIES				1,081
SITE PREPARATION	LS			(185)
ROADS AND PAVING	LS			(153)
UTILITIES	LS			(361)
LANDSCAPING	LS			(182)
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	$/ NSF	NO. UNITS	TOTAL COST
JNCO 3BR	1200	1.05	63	18	1,428,840
JNCO 4BR	1350	1.05	63	9	803,723
JNCO 5BR	1550	1.05	63	1	102,533
SNCO 3BR	1350	1.05	63	8	714,420
SNCO 4BR	1450	1.05	63	4	383,670
				40	3,433,186

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. 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 various types of units. Floor layouts are dysfunctional, and do

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

not allow maximum use of existing space. Family rooms are are currently being used as family and secondary eating rooms. Living/dining areas are not defined. Living and dining rooms are generally used for living rooms due to lack of space for both uses. The units also do not meet current fire safety and handicap laws and standards. Doors and windows are of the original construction and are obsolete. They are single pane, sliding glass windows and fall below current energy standards. Exterior living areas are inadequate. 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. The general appearance of the front yards is cluttered and unorganized. Carport structures are oriented in front of the housing units and blocks the view of the entrance. Also, lack of adequate outdoor storage has forced 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. Due to the extensive work required to correct deficiencies, modernize to contemporary standards and repair existing units, it is more cost effective to replace the units.

IMPACT IF NOT PROVIDED: Failure to correct fire safety, handicap and space deficiencies and modernize units to meet Air Force housing and neighborhood standards, impacts 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		
5. DATA AS OF 1993	a. NAME BOLLING AIR FORCE BASE	b. LOCATION WASHINGTON, D.C.	

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 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	0.80

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:	8,959
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	263,777

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)	70 UN	8,959	TURN KEY	
		TOTAL:	8,959		

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	8,959

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	70	55,763	3,903
SUPPORTING FACILITIES				4,184
SITE PREPARATION	LS			(352)
ROADS AND PAVING	LS			(731)
UTILITIES	LS			(631)
LANDSCAPING	LS			(600)
RECREATION	LS			(190)
OTHER (SPECIFY) GARAGE/STORM/DEMO/LBP	LS			(1,680)
SUBTOTAL				8,087
CONTINGENCY (5%)				404
TOTAL CONTRACT COST				8,491
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				467
TOTAL REQUEST				8,959
AREA COST FACTOR .80				

10. Description of Proposed Construction: Replace 70 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	$/ NSF	NO. UNITS	TOTAL COST
JNCO 2BR	950	.81	61	20	938,790
JNCO 3BR	1200	.81	61	50	2,964,600
				70	3,903,390

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. Ninety units will be demolished and replaced with 70 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		
5. DATA AS OF 1992	a. NAME MACDILL AIR FORCE BASE	b. LOCATION TAMPA, FLORIDA	

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	932	3,797	585	5,314	699	2,890	460	4,049
7. PERMANENT PARTY PERSONNEL	932	3,797	585	5,314	699	2,890	460	4,049
8. GROSS FAMILY HOUSING REQUIREMENTS	683	3,112	239	4,055	509	2,366	191	3,066
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	64	465	60	589				
a. INVOLUNTARILY SEPARATED	10	39	3	52				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	54	426	57	537				
10. VOLUNTARY SEPARATIONS	24	127	37	188	23	108	34	165
11. EFFECTIVE HOUSING REQUIREMENTS	683	3,112	239	4,055	486	2,258	157	2,901
12. HOUSING ASSETS (a + b)	611	2,605	147	3,363	461	2,008	116	2,584
a. UNDER MILITARY CONTROL	130	674	0	804	130	674	0	804
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	130	674	0	804	130	674	0	804
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	481	1,931	147	2,559	331	1,334	116	1,780
(1) ACCEPTABLY HOUSED	465	1,846	142	2,474				
(2) ACCEPTABLE VACANT RENTAL	16	64	5	85				
13. EFFECTIVE HOUSING DEFICIT	72	528	92	692	25	250	41	317
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
PATRICK AIR FORCE BASE, FLORIDA	AIR FORCE SPACE 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	446	1832	1125				194	666	560	4,823
b. End FY 2001	402	1655	914				194	666	560	4,391

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:	3,103
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	169,234

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 HSG (PHASE 7)	35 UN	3,103	TURN KEY	
		TOTAL:	3,103		

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 space wing; the Air Force Technical Applications Center; and an Air Combat Command HH-60 rescue squadron and an HC-130 rescue squadron. Also, the temporary beddown location for the Air Force Reserve HH-60/HC-130 rescue squadron from Homestead AFB, FL.

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 MILITARY FAMILY HSG (PHASE 7)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-142	SXHT974003T	3,103

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE MILITARY FAMILY HSG (PHASE 7)	UN	35	48,678	1,704
SUPPORTING FACILITIES				1,097
SITE PREPARATION	LS			(315)
UTILITIES	LS			(379)
LANDSCAPING	LS			(105)
RECREATION	LS			(98)
DEMOLITION/ASBESTOS/LBP REMOVAL	LS			(200)
SUBTOTAL				2,801
CONTINGENCY (5%)				140
TOTAL CONTRACT COST				2,941
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				162
TOTAL REQUEST				3,103
AREA COST FACTOR .80				

10. Description of Proposed Construction: Replace 35 housing units. Includes the demolition, site clearing, asbestos and lead base paint removal, replacement/upgrade of utility systems and roads. Provides 2 bedroom units with attached garages, normal amenities to include parking, air conditioning, exterior patios, recreational areas, and whole neighborhood improvements.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSF	NO. UNITS	TOTAL COST
SNCO 2BR	950	.84	61	35	1,703,730
				35	1,703,730

11. REQUIREMENT: 2,136 ADEQUATE: 1,991 SUBSTANDARD: 145

PROJECT: Replace Military Family Housing (Phase 7). (Current Mission)

REQUIREMENT: This project is required to provide modern and efficient replacement housing for military members and their dependents stationed at Patrick AFB, Florida. This is the seventh of eleven phases to upgrade/replace 999 houses. 756 units have been upgraded or approved in previous phases, and 243 remain to be accomplished in subsequent phases. All units will meet "whole house" standards and are programmed in accordance with phase 7 of the South Housing Phasing Plan of the Housing Community Plan. The housing replacement will provide a safe, comfortable, and appealing living environment comparable to off-base civilian communities. The replacement housing will provide a modern kitchen, living/dining room, bedrooms and baths, with adequate interior and exterior storage, and a single garage. Exterior parking will be provided for a second occupant vehicle and guest. The basic neighborhood support

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 MILITARY FAMILY HSG (PHASE 7)	SXHT974003T

infrastructure will be replaced to meet modern housing needs. Neighborhood enhancements will include landscaping and recreational areas.

CURRENT SITUATION: This project replaces 35 Patrick AFB housing units that were constructed in 1958. The existing units are one story, concrete block with built up roofs. The housing area is open, lacks any sense of human scale, and portrays a very barren and unappealing visual image. These houses are showing the effects of age, continuous heavy use, and the degradation due to the corrosive environment on Florida's coast. The built up gravel flat roofs have deteriorated to where they must be replaced. The exterior walls have developed cracks that allow water and moisture intrusion to the interiors. The infrastructure (sewer, water, electrical) have deteriorated beyond economic repair. The plumbing and heating/air conditioning systems inside the units have also deteriorated beyond economic repair. The bathrooms are small, fixtures are outdated and are energy inefficient. Bedrooms are small and lack adequate closet space. Lighting system throughout the houses are inefficient and are in need of replacement. The majority of units have asbestos in roofs, floor tiles, walls, and lead base paint on walls and ceilings.

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. Some personnel will continue to occupy substandard housing while neighbors are in new replaced units. The current Housing Market Analysis shows an effective housing deficit of 8 units. Without this last phase of the project, various costly repairs will be required for these units, with no improvement in the quality of life.

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, 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		
5. DATA AS OF 1994	a. NAME PATRICK AIR FORCE BASE	b. LOCATION BREVARD COUNTY, FLORIDA	

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	718	1,902	245	2,865	721	1,878	272	2,871
7. PERMANENT PARTY PERSONNEL	718	1,902	245	2,865	721	1,878	272	2,871
8. GROSS FAMILY HOUSING REQUIREMENTS	137	1,107	44	1,288	570	1,465	101	2,136
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	137	1,107	44	1,288				
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	137	1,107	44	1,288	570	1,465	101	2,136
12. HOUSING ASSETS (a + b)	565	1,452	54	2,071	564	1,432	54	2,050
a. UNDER MILITARY CONTROL	139	1,363	54	1,556	139	1,363	54	1,556
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	137	1,107	44	1,288	139	1,363	54	1,556
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	2	256	10	268				
b. PRIVATE HOUSING	426	89	0	515	425	69	0	494
(1) ACCEPTABLY HOUSED	0	0	0	0				
(2) ACCEPTABLE VACANT RENTAL	0	0	0	0				
13. EFFECTIVE HOUSING DEFICIT	0	0	0	0	6	33	47	86
14. PROPOSED PROJECT					0	35	0	35

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
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	739	3269	11119				16	40	497	16,680
b. End FY 2001	709	3046	8805				16	40	497	14,113

7. INVENTORY DATA ($000)

a. Total Acreage: (8,720)	
b. Inventory Total As Of: (30 SEP 95)	542,303
c. Authorization Not Yet In Inventory:	95,250
d. Authorization Requested In This Program:	5,763
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	643,316

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	60 UN	5,763	TURN KEY	
		TOTAL:	5,763		

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

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

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

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	REPLACE FAMILY HOUSING PHASE 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	711-142	UHHZ9240143	5,763

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING, PHASE 3	UN	60	60,960	3,658
SUPPORTING FACILITIES				1,545
ROADS AND PAVING	LS			(502)
UTILITIES	LS			(416)
LANDSCAPING	LS			(79)
RECREATION	LS			(120)
DEMOLITION	LS			(428)
SUBTOTAL				5,203
CONTINGENCY (5%)				260
TOTAL CONTRACT COST				5,463
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				300
TOTAL REQUEST				5,763
AREA COST FACTOR .95				

10. Description of Proposed Construction: Replace 60 JNCO units. Build units to authorized square footage limits for two and three bedroom JNCO housing. Exterior appurtenances to include carports, porches, and patios. Neighborhood improvements include recreation, utilities, landscaping, signage, and drainage.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSF	NO. UNITS	TOTAL COST
JNCO 2BR	950	.96	60	34	1,860,480
JNCO 3BR	1200	.96	60	26	1,797,120
				60	3,657,600

11. REQUIREMENT: 3,630 UN ADEQUATE: 2,729 UN SUBSTANDARD: 607 UN
PROJECT: Replace 60 Wherry housing units. (Current Mission)
REQUIREMENT: Replacement of these units is required to provide adequate quarters for junior enlisted military members and their families assigned to this installation. 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, appealing living environment comparable to the off-base civilian community. This is the third of multiple phases to provide adequate housing for base personnel. Of the 460 housing units to be replaced, 173 are completed or included in prior programs, and 227 will follow in subsequent phases. Carports are needed to protect occupants' vehicles from exposure to the elements. Driveways and off-street parking access will eliminate unsafe on-street parking. Playgrounds are required to provide safe recreational areas for base dependents. Signs are needed to foster neighborhood pride and

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
REPLACE FAMILY HOUSING PHASE 3	UHHZ9240143

identification.

CURRENT SITUATION: The Wherry housing area was constructed in the 1950s and has had only one interior improvement (1979) since then. Existing units do not meet USAF or local standards and do not have the authorized net square footage. The units lack carports and off-street parking, and the neighborhood lacks sidewalks and adequate recreation areas. Deteriorating interior and exterior finishes are in need of replacement, and aging mechanical and electrical systems are at the end of their useful life. The room sizes do not meet the minimum Air Force whole house standards. Functional layouts are inefficient and do not reflect contemporary styles. These units do not have adequate storage for lawnmowers, bicycles and tools. Interior wall finishes need revitalization, and the existing electrical wiring does not meet code Lack of adequate drainage causes problems with standing water. Existing plumbing and HVAC systems are antiquated and unreliable. Water heaters are inadequate. These units requre high maintenance and are inefficient.

IMPACT IF NOT PROVIDED: Major morale problems will result if this replacement initiative is not supported. Some people will continue to be housed in unsatisfactory housing while neighbors and friends are in new, replaced units. The units will continue to require high levels of maintenance, and energy consumption will remain high. The housing will continue to be occupied until it becomes uninhabitable because adequate, affordable housing is not available. The current housing market analysis shows a family housing deficit of 261 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, 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		
5. DATA AS OF 1994	a. NAME WARNER ROBBINS AIR FORCE BASE	b. LOCATION WARNER ROBBINS, GEORGIA	

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	1,147	3,760	631	5,538	1,385	4,568	750	6,703
7. PERMANENT PARTY PERSONNEL	1,010	3,646	574	5,230	1,248	4,454	693	6,395
8. GROSS FAMILY HOUSING REQUIREMENTS	554	1,813	0	2,367	820	2,716	94	3,630
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	554	1,813	0	2,367	820	2,716	94	3,630
12. HOUSING ASSETS (a + b)	628	2,079	46	2,753	783	2,531	55	3,369
a. UNDER MILITARY CONTROL	246	1,150	0	1,396	246	1,150	0	1,396
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	246	1,148	0	1,394	246	1,150	0	1,396
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	2	0	2				
b. PRIVATE HOUSING	382	929	46	1,357	537	1,381	55	1,973
(1) ACCEPTABLY HOUSED	308	665	0	973				
(2) ACCEPTABLE VACANT RENTAL	74	264	46	384				
13. EFFECTIVE HOUSING DEFICIT	(74)	(264)	(46)	(384)	37	185	39	261
14. PROPOSED PROJECT					0	60	0	60

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
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	934	4925	1267		132	1	3	5	15	7,282
b. End FY 2001	916	4852	1068		132	1	3	5	15	6,992

7. INVENTORY DATA ($000)

a. Total Acreage: (22,382)	
b. Inventory Total As Of: (30 SEP 95)	236,084
c. Authorization Not Yet In Inventory:	50,680
d. Authorization Requested In This Program:	10,092
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	296,856

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)	108 UN	10,092	TURN KEY	
		TOTAL:	10,092		

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 flying 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 and 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	10,092

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE MILITARY FAMILY HOUSING-PH-4	UN	108	50,808	5,487
SUPPORTING FACILITIES				3,623
MISCELLANEOUS SUPPORT	LS			(90)
SITE PREPARATION	LS			(883)
ROADS AND PAVING	LS			(709)
UTILITIES	LS			(709)
LANDSCAPING	LS			(353)
RECREATION	LS			(177)
GARAGES AND STORAGE	LS			(702)
SUBTOTAL				9,110
CONTINGENCY (5%)				456
TOTAL CONTRACT COST				9,566
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				526
TOTAL REQUEST				10,092
AREA COST FACTOR .86				

10. Description of Proposed Construction: Design and construct 54 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	$/ NSF	NO. UNITS	TOTAL COST
JNCO 2BR	950	.86	61	100	4,983,700
JNCO 3BR	1200	.86	61	8	503,616
				108	5,487,316

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,

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 or impact on the ability of the local school district to support base dependents. 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 (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 31 JANUARY 1992	a. NAME BARKSDALE AIR FORCE BASE	b. LOCATION SHREVEPORT, LOUISIANNA	

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	1,036	3,670	1,006	5,712	893	3,330	1,328	5,551
7. PERMANENT PARTY PERSONNEL	1,036	3,670	1,006	5,712	893	3,330	1,328	5,551
8. GROSS FAMILY HOUSING REQUIREMENTS	819	3,502	381	4,642	703	2,659	459	3,821
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	138	1,002	171	1,311				
a. INVOLUNTARILY SEPARATED	4	4	5	13				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	134	998	166	1,298				
10. VOLUNTARY SEPARATIONS	8	132	16	156	8	120	22	150
11. EFFECTIVE HOUSING REQUIREMENTS	819	3,502	381	4,642	695	2,539	437	3,671
12. HOUSING ASSETS (a + b)	684	1,836	171	2,691	578	1,433	174	2,185
a. UNDER MILITARY CONTROL	197	316	0	429	105	324	0	429
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	197	316	0	429	105	324	0	429
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	487	1,520	171	2,178	473	1,109	174	1,756
(1) ACCEPTABLY HOUSED	476	1,485	166	2,127				
(2) ACCEPTABLE VACANT RENTAL	11	35	5	51				
13. EFFECTIVE HOUSING DEFICIT	135	1,099	182	1,416	117	1,106	263	1,486
14. PROPOSED PROJECT					0	108	0	108

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
HANSCOM AIR FORCE BASE, MASSACHUSETTS	AIR FORCE MATERIEL COMMAND	1.29

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 95	840	886	2300				19	61	261	4,367
b. End FY 2001	799	877	2005				19	61	261	4,022

7. INVENTORY DATA ($000)

a. Total Acreage: (1,075)	
b. Inventory Total As Of: (30 SEP 95)	154,874
c. Authorization Not Yet In Inventory:	18,900
d. Authorization Requested In This Program:	4,875
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	178,649

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	32 UN	4,875	TURN KEY	
		TOTAL:	4,875		

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

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

10. Mission or Major Functions: This base hosts the Electronics Systems Division, responsible for management, command, control and direction of all electronics associated research and development with the Air Force Materiel Command; the Air Force Geophysics Laboratory conducting and researching terrestrial, atmospheric, and space environments; the Air Force Computer Acquisition Center; and 2 AFRES aerial port squadrons.

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

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HANSCOM AIR FORCE BASE, MASSACHUSETTS	REPLACE FAMILY HOUSING PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	711-142	MXRD9701072	4,875

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING, PHASE 2	UN	32	97,102	3,107
SUPPORTING FACILITIES				1,293
SITE PREPARATION	LS			(460)
UTILITIES	LS			(382)
DEMOLITION AND ASBESTOS REMOVAL	LS			(451)
SUBTOTAL				4,400
CONTINGENCY (5%)				220
TOTAL CONTRACT COST				4,620
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				254
TOTAL REQUEST				4,875
AREA COST FACTOR 1.29				

10. Description of Proposed Construction: Replace 32 NCO housing units at Scott Circle. Includes demolition and asbestos removal, site clearing and upgrade of utility systems, and construction of multi-plex units with single car garages. Provides normal amenities to include parking, air conditioning, and exterior patios.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSF	NO. UNITS	TOTAL COST
JNCO 2BR	950	1.33	61	10	770,735
JNCO 3BR	1200	1.33	61	10	973,560
SNCO 3BR	1350	1.33	61	6	657,153
SNCO 4BR	1450	1.33	61	6	705,831
				32	3,107,279

11. REQUIREMENT: 1,387 UN ADEQUATE: 834 UN SUBSTANDARD: 299 UN
PROJECT: Replace 32 units of housing in Scott Circle. (Current Mission)
REQUIREMENT: This project is required to provide modern and efficient replacement housing for military members and their dependents stationed at Hanscom AFB. All units will meet "whole house" standards and are programmed in accordance with Phase 2 of the Housing Community Plan. Replacement housing will provide a safe, comfortable, and appealing living environment comparable to that found in the off-base civilian community. This is the second of multiple phases to provide adequate housing for base personnel. Of the 200 units to be replaced in this multi-phase initiative, 48 are complete or included in prior programs, and 120 will follow in subsequent phases. Garages are required to protect vehicles from the harsh New England winters.

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

3. INSTALLATION AND LOCATION

HANSCOM AIR FORCE BASE, MASSACHUSETTS

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE FAMILY HOUSING PHASE 2	MXRD9701072

CURRENT SITUATION: The Scott Circle housing area is considered the least desirable housing on Hanscom. There are no private entryways. As many as three families share a common entry way. The units are deficient in required floor space and lack functional floor plans. The flat roofs and lack of architectural features make the units look like old dormitories. The immediate living areas around the units are congested. Many units have only one reserved parking space, sometimes as far as 100 yards from the front door of the unit, and there are no covered parking areas or private driveways. There is precious little room to live, and privacy is at a premium. The interior water lines are old and in need of replacement. The electrical system and bathrooms are out-dated and need upgrading.

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. Residents will continue to be forced to park in the street, adding to neighborhood clutter and increasing the potential for accidents. The housing will continue to be occupied until it becomes uninhabitable because adequate, affordable housing is not available. The current Housing Market Analysis shows a family housing deficit of 254 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, 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		
5. DATA AS OF 1991	a. NAME HANSCOM AIR FORCE BASE	b. LOCATION MASSACHUSETTS	

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	1,085	930	1,183	2,198	1,022	836	126	1,984
7. PERMANENT PARTY PERSONNEL	1,085	930	183	2,198	1,022	836	126	1,984
8. GROSS FAMILY HOUSING REQUIREMENTS	788	665	34	1,487	776	597	19	1,392
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	134	104	16	254				
a. INVOLUNTARILY SEPARATED	10	10	7	27				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	124	94	9	227				
10. VOLUNTARY SEPARATIONS	2	3	0	5	2	3	0	5
11. EFFECTIVE HOUSING REQUIREMENTS	788	665	34	1,487	774	594	19	1,387
12. HOUSING ASSETS (a + b)	660	560	19	1,239	658	471	4	1,133
a. UNDER MILITARY CONTROL	386	472	0	858	402	456	0	858
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	386	472	0	858	402	456	0	858
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	274	88	19	381	256	15	4	275
(1) ACCEPTABLY HOUSED	266	86	18	370				
(2) ACCEPTABLE VACANT RENTAL	8	2	1	11				
13. EFFECTIVE HOUSING DEFICIT	128	105	15	248	116	123	15	254
14. PROPOSED PROJECT -					0	32	0	32

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
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	964	3874	2280	594	2162		7	347	97	10,325
b. End FY 2001	991	3900	2152	558	2613		7	347	97	10,665

7. INVENTORY DATA ($000)

a. Total Acreage: (3,546)	
b. Inventory Total As Of: (30 SEP 95)	280,071
c. Authorization Not Yet In Inventory:	18,100
d. Authorization Requested In This Program:	6,500
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	304,671

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)	76 UN	6,500	TURN KEY	
		TOTAL:	6,500		

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 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 squadron; 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.

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	REPLACE MILITARY FAMILY HOUSING (PHASE 2)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.41	711-142	MAHG9640012	6,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	76	49,020	3,726
SUPPORTING FACILITIES				2,142
UTILITIES/EMCS/COMM	LS			(306)
SITE IMPROVEMENTS	LS			(298)
PAVEMENTS	LS			(397)
DEMOLITION	LS			(447)
LANDSCAPING	LS			(248)
RECREATION	LS			(248)
NEIGHBORHOOD IMPROVEMENTS	LS			(199)
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 .84				

10. Description of Proposed Construction: Replace 76 housing units. Work includes all site work, utility & sewage systems, pavements to include off-street parking, walks, and required street improvements, comm support, ancillary appurtenances such as signage, screens & fences, and community facilities such as commons, parks, ballfields, and play areas. Includes demolition, asbestos and lead-based paint removal.

UNIT TYPE	NET AREA	PROJECT FACTOR	$/ NSF	NO. UNITS	TOTAL COST
JNCO 2BR	950	.86	60	76	3,725,520
				76	3,725,520

11. REQUIREMENT: 5,259 UN ADEQUATE: 2,815 UN SUBSTANDARD: 1,538 UN
PROJECT: Replace Military Family Housing (Ph 2). Construct 76 MFH units with all associated ancillary appurtenances, "Whole Community" facilities, and all required engineering support facilities.(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

KEESLER AIR FORCE BASE, MISSISSIPPI

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE MILITARY FAMILY HOUSING (PHASE 2)	MAHG9640012

CURRENT SITUATION: The existing units are unable to adequately meet contemporary Air Force design standards in their current configuration and condition. They are similarly unable to support efficient continued use if a major upgrade project is not implemented due to their numerous deficiencies, many of which simply cannot be overcome with improvements to to existing facilities. Roofs, walls, and foundations require replacement. Plumbing and electrical systems are antiquated and do not meet current standards for safety or efficiency. All rooms are small and do not have necessary storage, cabinets, and fixtures. Heating and air conditioning systems require replacement.

IMPACT IF NOT PROVIDED: Adequate housing will not be provided consistent with the requirements of the "Whole House, Whole Community" initiative for the design and construction of housing and support facilities in the housing vicinity. Major morale problems will result if this replacement initiative is not supported. People will continue to occupy substandard housing. The current Housing Market analysis shows a projected deficit of 806 units. Affordable off-base housing is not available.

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 is consistent with Keesler's Military Family Housing Community Development Plan and is the second phase of a two phase initiative to replace 34 units in Shadowlawn and 136 units in South Harrison Court. 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		
5. DATA AS OF 1993	a. NAME KEESLER AIR FORCE BASE	b. LOCATION BILOXI, MISSISSIPPI	

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	1,268	3,929	2,430	7,627	1,373	4,593	3,209	9,175
7. PERMANENT PARTY PERSONNEL	1,268	3,929	2,430	7,627	1,373	4,593	3,209	9,175
8. GROSS FAMILY HOUSING REQUIREMENTS	940	3,215	372	4,527	1,018	3,758	483	5,259
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	187	581	65	833				
a. INVOLUNTARILY SEPARATED	0	0	0	0				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	187	581	65	833				
10. VOLUNTARY SEPARATIONS	0	0	0	0	0	0	0	0
11. EFFECTIVE HOUSING REQUIREMENTS	940	3,215	372	4,527	1,018	3,758	483	5,259
12. HOUSING ASSETS (a + b)	869	3,105	355	4,329	851	3,121	481	4,453
a. UNDER MILITARY CONTROL	287	1,470	196	1,953	287	1,470	196	1,953
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	287	1,470	196	1,953	287	1,470	196	1,953
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	582	1,635	159	2,376	564	1,651	285	2,500
(1) ACCEPTABLY HOUSED	466	1,164	111	1,741				
(2) ACCEPTABLE VACANT RENTAL	116	4,711	48	635				
13. EFFECTIVE HOUSING DEFICIT	71	110	17	198	167	637	2	806
14. PROPOSED PROJECT					0	76	0	76

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
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:	9,451
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	689,723

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)	76 UN	9,451	TURN KEY	
		TOTAL:	9,451		

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	9,451

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSTRUCT MILITARY FAMILY HOUSING-PH 2	UN	76	66,730	5,071
SUPPORTING FACILITIES				3,461
GARAGE/STORAGE/PATIO	LS			(618)
SITE PREPARATION	LS			(358)
ROADS AND PAVING	LS			(628)
UTILITIES	LS			(652)
LANDSCAPING	LS			(295)
RECREATION	LS			(205)
BASEMENTS	LS			(456)
LAND ACQUISTION	LS			(250)
SUBTOTAL				8,532
CONTINGENCY (5%)				427
TOTAL CONTRACT COST				8,959
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				493
TOTAL REQUEST				9,451
AREA COST FACTOR 1.05				

10. Description of Proposed Construction: Design and construct 76 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	$/ NSF	NO. UNITS	TOTAL COST
JNCO 2BR	950	1.07	61	54	3,348,351
JNCO 3BR	1200	1.07	61	22	1,723,128
				76	5,071,479

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		
5. DATA AS OF 31 JANUARY 1992	a. NAME WHITEMAN AIR FORCE BASE	b. LOCATION KNOB NOSTER, MISSOURI	

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	462	1,948	582	2,992	641	3,509	1,048	5,198
7. PERMANENT PARTY PERSONNEL	462	1,948	582	2,992	641	3,509	1,048	5,198
8. GROSS FAMILY HOUSING REQUIREMENTS	141	929	32	1,102	398	2,647	302	3,347
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	12	80	32	124				
a. INVOLUNTARILY SEPARATED	0	0	0	0				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	12	80	32	124				
10. VOLUNTARY SEPARATIONS	0	0	0	0	0	0	0	0
11. EFFECTIVE HOUSING REQUIREMENTS	141	929	32	1,102	398	2,647	302	3,347
12. HOUSING ASSETS (a + b)	275	1,389	135	1,799	379	2,165	204	2,748
a. UNDER MILITARY CONTROL	129	849	0	978	132	859	0	991
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	129	849	0	978	132	859	0	991
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	146	540	135	821	247	1,306	204	1,757
(1) ACCEPTABLY HOUSED								
(2) ACCEPTABLE VACANT RENTAL								
13. EFFECTIVE HOUSING DEFICIT	12	80	32	124	19	482	98	599
14. PROPOSED PROJECT						76		76

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
OFFUTT AIR FORCE BASE, NEBRASKA	HOUSING MANAGEMENT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.72.41	610-119	SGBP970004	845

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
HOUSING MANAGEMENT FACILITY	SF	5,000	110	550
SUPPORTING FACILITIES				213
SEWER & WATER LINES	LS			(16)
PAVEMENTS	LS			(90)
LANDSCAPING	LS			(50)
DEMOLITION	LS			(15)
SYSTEMS FURNITURE	LS			(42)
SUBTOTAL				763
CONTINGENCY (5%)				38
TOTAL CONTRACT COST				801
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				44
TOTAL REQUEST				845
AREA COST FACTOR 0.98				

10. Description of Proposed Construction: All site preparation, drainage improvements, slab on grade, splitface concrete masonry walls, sloped standing seam metal roof, and decorative interior finishings. Project provides offices, restrooms, counseling and meeting rooms, customer waiting area, computer equipment room, and interior and exterior child play areas. Includes all utilities, parking, landscaping, and demolition. Air Conditioning: 15 Tons.

11. REQUIREMENT: 5,000 SF ADEQUATE: 0 SUBSTANDARD: 4,794 SF

PROJECT: Construct Housing Management facility. (Current Mission)

REQUIREMENT: An adequate facility is required for managing base owned/operated accompanied and unaccompanied 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 all personnel. It must be handicapped accessible and have adequate parking for vehicles pulling trailers, and small trucks which may be used by arriving personnel. 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, a computer room, and storage space for equipment and publications, a kitchen area for use by families, 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 existing Housing Management facility is located on the main base, approximately four miles from the off-base housing area and 79 percent of managed housing units. The facility is located in a very

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
HOUSING MANAGEMENT FACILITY	SGBP970004

crowded and congested industrial area with no expansion capability. Parking is inadequate and a continuous problem as customers compete with the heavy traffic, including major truck traffic in this industrial complex. It is poorly located for serving accompanied or unaccompanied customers and for effective conduct of normal housing management activities. Considerable extra time is spent each time housing inspectors travel between the office and area of greatest work. The housing management office provides a vital service to over 10,500 permanent party personnel and manages 2,632 family housing units. In addition, the office serves all base unaccompanied personnel and manages 846 dormitory rooms. The existing facility will be demolished upon completion of this project.
IMPACT IF NOT PROVIDED: The ability to service customers will be degraded by the poor accessibility of the current location. The majority of customers and the housing inspection staff will spend an extra half-hour per trip transiting the base and traveling to and from the primary housing area. Facilities will not be located as recommended in the Housing Community Plan.
ADDITIONAL: This project meets the criteria and scope specified in the "Air Force Housing Support Facilities Guide."

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	HOUSING MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.41	219-944	SGBP970019	874

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
HOUSING MAINTENANCE FACILITY	LS			691
HOUSING MAINTENANCE FACILITY	SF	6,300	93	(586)
COVERED STORAGE	SF	3,000	35	(105)
SUPPORTING FACILITIES				98
DEMO EXISTING FACILITY	LS			(28)
PARKING LOT/SIDEWALKS/DRIVES	LS			(70)
SUBTOTAL				789
CONTINGENCY (5%)				39
TOTAL CONTRACT COST				828
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				46
TOTAL REQUEST				874
AREA COST FACTOR 0.98				

10. Description of Proposed Construction: Construct a new facility for maintenance operations. The new facility will be located in the Fourth Increment housing area. The exterior appearance will be compatible with the surrounding housing area and nearby school. Construction will include off street customer and employee parking and sidewalks, exterior lighting, exterior covered storage, landscaping, and demolish the existing facility. Air Conditioning: 15 Tons.

11. REQUIREMENT: 9,300 SF ADEQUATE: 0 SUBSTANDARD: 4,996 SF

PROJECT: Construct a Housing Maintenance Facility and working stock storage area using masonry and standing seam metal roofs.

REQUIREMENT: Construct a new Housing Maintenance Facility designed in accordance with the Housing Support Facilities Guide for a Large Housing Maintenance Facility. Consolidate two separate working stock storage locations into one and increase the square footage by 885 sf. Demolish the existing maintenance facility and restore the site to green space. Vacate the two unoccupiable housing units currently used for working stock storage.

CURRENT SITUATION: The existing Housing Maintenance Facility is an uninsulated metal building constructed in 1966. The facility has an inadequate electrical system, a sewer system that backs up in rainy weather, a wet stock room in rainy weather and during spring thaws, inadequate parking to support the customers, U-Fix-It Store customers, maintenance contractor, delivery trucks, no automated fire suppression system, and no fire alarm system. Wing Safety has evaluated the existing maintenance facility and determined that "Storage and working space is inadequate for items stored and job tasks performed." In addition, the metal building is an eyesore and architecurally incompatible with the

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
HOUSING MAINTENANCE FACILITY	SGBP970019

surrounding housing area. Working stock for housing maintenance is stored in two unoccupiable housing units.

IMPACT IF NOT PROVIDED: The housing maintenance operation will continue to be severely constrained by the lack of adequate facilities. Timeliness of maintenance operations will continue to be constrained by the location of stock inventory. The ability to place the parts where and when they are needed will continue to be confusing. The existing building will continue to be an eyesore to the community and will continue to present an unprofessional appearance.

ADDITIONAL: This project meets the criteria and scope specified in the Department of the Air Force, "Air Force Housing Support Facilities 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
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:	6,339
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	472,980

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 3	60 UN	6,339	TURN KEY	
		TOTAL:	6,339		

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	6,339

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	60	73,627	4,418
SUPPORTING FACILITIES				1,305
SITE PREPARATION	LS			(150)
DEMOLITION AND ENVIRONMENTAL	LS			(1,155)
SUBTOTAL				5,723
CONTINGENCY (5%)				286
TOTAL CONTRACT COST				6,009
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				330
TOTAL REQUEST				6,339
AREA COST FACTOR 1.02				

10. Description of Proposed Construction: Replace 60 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	$/ NSF	NO. UNITS	TOTAL COST
CGO 2BR	950	1.02	61	28	1,655,052
CGO 3BR	1350	1.02	61	20	1,679,940
CGO 4BR	1450	1.02	61	12	1,082,628
				60	4,417,620

11. REQUIREMENT: 2,978 UN ADEQUATE: 1,190 UN SUBSTANDARD: 1,631 UN
PROJECT: Replace 60 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 this project will 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. The current Housing Market Analysis shows a family housing deficit of 147 units. Operations and maintenance of the existing units will continue at a costly rate due to deterioration of 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		
5. DATA AS OF 1993	a. NAME KIRTLAND AIR FORCE BASE	b. LOCATION ALBUQUERQUE, NEW MEXICO	

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					60	0	0	60

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	718	3886	464				1	2	206	5,277
b. End FY 2001	712	3750	410				1	2	206	5,081

7. INVENTORY DATA ($000)

a. Total Acreage: (6,374)	
b. Inventory Total As Of: (30 SEP 95)	329,635
c. Authorization Not Yet In Inventory:	12,900
d. Authorization Requested In This Program:	9,225
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:	359,790

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	64 UN	9,225	TURN KEY	
		TOTAL:	9,225		

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 squadrons with HH-1 helicopters).

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	9,225

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	64	87,840	5,622
SUPPORTING FACILITIES				2,706
SITE PREPARATION	LS			(338)
ROADS AND PAVING	LS			(510)
UTILITIES	LS			(604)
LANDSCAPING	LS			(198)
RECREATION	LS			(149)
FOUNDATIONS/BASEMENTS/GARAGES	LS			(619)
DEMOLITION/ASBESTOS & LBP ABATEMENT	LS			(288)
SUBTOTAL				8,328
CONTINGENCY (5%)				416
TOTAL CONTRACT COST				8,744
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				481
TOTAL REQUEST				9,225
AREA COST FACTOR .98				

10. Description of Proposed Construction: Replace 64 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	$/ NSF	NO. UNITS	TOTAL COST
JNCO 3BR	1500	.96	61	64	5,621,760
				64	5,621,760

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 IAW the Housing Community Plan. Project adds (new) 300 NSF authorized for recreation space at northern tier bases.

CURRENT SITUATION: This project replaces houses constructed in 1966. These28-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

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

antiquated and do not meet current standards for efficiency or safety. 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 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 XXX units. Units will continue to deteriorate resulting in escalating operations, maintenance and repair costs to the Government.

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 1993	a. NAME GRAND FORKS AIR FORCE BASE	b. LOCATION GRAND FORKS, 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	768	3,031	940	4,739	695	3,021	1,142	4,858
7. PERMANENT PARTY PERSONNEL	768	3,031	940	4,739	695	3,021	1,142	4,858
8. GROSS FAMILY HOUSING REQUIREMENTS	527	2,315	324	3,166	474	2,302	387	3,163
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	2	33	26	61				
a. INVOLUNTARILY SEPARATED	2	6	5	13				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	0	27	21	48				
10. VOLUNTARY SEPARATIONS	4	80	8	92	4	80	9	93
11. EFFECTIVE HOUSING REQUIREMENTS	527	2,315	324	3,166	470	2,222	378	3,070
12. HOUSING ASSETS (a + b)	526	2,217	295	3,038	474	2,210	357	3,041
a. UNDER MILITARY CONTROL	478	1,793	0	2,271	466	1,805	0	2,271
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	478	1,793	0	2,271	466	1,805	0	2,271
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	48	424	295	767	8	405	357	770
(1) ACCEPTABLY HOUSED	43	409	290	742				
(2) ACCEPTABLE VACANT RENTAL	5	15	5	25				
13. EFFECTIVE HOUSING DEFICIT	1	98	29	128	(4)	12	21	29
14. PROPOSED PROJECT					0	64	0	64

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
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	653	3942	525				1	16	37	5,174
b. End FY 2001	651	3968	536				1	16	37	5,209

7. INVENTORY DATA ($000)

a. Total Acreage: (5,385)	
b. Inventory Total As Of: (30 SEP 95)	300,713
c. Authorization Not Yet In Inventory:	11,250
d. Authorization Requested In This Program:	10,175
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	322,138

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)	64 UN	10,175	TURN KEY	
		TOTAL:	10,175		

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 two B-52H squadrons and an Air Force Space Command missile group with three Minuteman III intercontinental ballistic missile squadrons and HH-1H aircraft.

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	10,175

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE MILITARY FAMILY HOUSING (PH 3)	UN	64	110,143	7,049
SUPPORTING FACILITIES				2,136
MISCELLANEOUS SUPPORT	LS			(219)
SITE PREPARATION	LS			(149)
ROADS AND PAVING	LS			(105)
UTILITIES	LS			(465)
LANDSCAPING	LS			(360)
RECREATION	LS			(188)
GARAGES	LS			(271)
DEMOLITION AND ASBESTOS/LBP REMOVAL	LS			(379)
SUBTOTAL				9,185
CONTINGENCY (5%)				459
TOTAL CONTRACT COST				9,644
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				530
TOTAL REQUEST				10,175
AREA COST FACTOR 1.10				

10. Description of Proposed Construction: Replace 64 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	$/ NSF	NO. UNITS	TOTAL COST
SNCO 3BR	1650	1.08	61	50	5,435,100
SNCO 4BR	1750	1.08	61	14	1,614,060
				64	7,049,160

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. 2,257 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 31 JANUARY 1992	a. NAME MINOT AIR FORCE BASE	b. LOCATION MINOT, ND	

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	809	2,765	1,188	4,762	746	2,867	1,283	4,896
7. PERMANENT PARTY PERSONNEL	809	2,765	1,188	4,762	746	2,867	1,283	4,896
8. GROSS FAMILY HOUSING REQUIREMENTS	516	1,967	359	2,842	490	2,002	392	2,884
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	8	31	31	70				
a. INVOLUNTARILY SEPARATED	0	16	0	16				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	8	15	31	54				
10. VOLUNTARY SEPARATIONS	8	63	16	87	8	58	19	85
11. EFFECTIVE HOUSING REQUIREMENTS	516	1,967	359	2,842	482	1,944	373	2,799
12. HOUSING ASSETS (a + b)	525	2,073	313	2,911	483	1,942	354	2,779
a. UNDER MILITARY CONTROL	472	1,786	201	2,459	428	1,736	295	2,459
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	447	1,589	201	2,237	428	1,736	295	2,459
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	25	197	0	222				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	53	287	112	452	55	206	59	320
(1) ACCEPTABLY HOUSED	53	284	111	448				
(2) ACCEPTABLE VACANT RENTAL	0	3	1	4				
13. EFFECTIVE HOUSING DEFICIT	16	91	46	153	(1)	2	19	20
14. PROPOSED PROJECT						64		64

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	SF	3,251	90	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 Tons.

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 facility make upgrading the existing structure uneconomical. There are no

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

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	SF	3,258	60	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 Tons.

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 continue operating from facilities which are located far from Lackland's

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

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	522	3955	1250				25	28	103	5,883
b. End FY 2001	503	3685	1177				25	28	103	5,521

7. INVENTORY DATA ($000)

a. Total Acreage: (5,745)	
b. Inventory Total As Of: (30 SEP 95)	201,531
c. Authorization Not Yet In Inventory:	11,790
d. Authorization Requested In This Program:	7,359
e. Authorization Included In Following Program: (FY 1998)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	228,039

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	50 UN	7,359	TURN KEY	

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 Combat Command airlift wing with three C-141 squadrons; an Air Force Reserve C-141 associate airlift wing; Northwest Air Defense Sector, which will consolidate into the Western Air Defense Sector 95/2 and be assigned to the Air National Guard; and an Air National Guard air defense detachment (F-15 aircraft).

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	7,359

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE FAMILY HOUSING	UN	50	88,584	4,429
SUPPORTING FACILITIES				2,214
SITE PREPARATION	LS			(509)
ROADS AND PAVING	LS			(125)
UTILITIES	LS			(230)
LANDSCAPING	LS			(50)
RECREATION	LS			(50)
GARAGES	LS			(275)
LAND ACQUISITION	LS			(975)
SUBTOTAL				6,643
CONTINGENCY (5%)				332
TOTAL CONTRACT COST				6,975
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				384
TOTAL REQUEST				7,359
AREA COST FACTOR 1.08				

10. Description of Proposed Construction: Replace 50 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	$/ NSF	NO. UNITS	TOTAL COST
JNCO 4BR	1350	1.06	61	20	1,745,820
SNCO 3BR	1350	1.06	61	20	1,745,820
SNCO 4BR	1450	1.06	61	10	937,570
				50	4,429,210

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 Apr 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". AF/CE Ltr, undated, states "Under no circumstances will the units be considered for improvement or upgrading", therefore, an economic analysis has not been accomplished. 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 100 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 (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 1993	a. NAME McCHORD AIR FORCE BASE	b. LOCATION TACOMA, WASHINGTON	

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	677	3,021	775	4,473	536	3,050	782	4,368
7. PERMANENT PARTY PERSONNEL	677	3,021	775	4,473	536	3,050	782	4,368
8. GROSS FAMILY HOUSING REQUIREMENTS	490	2,338	222	3,050	347	2,364	228	2,939
9. TOTAL UNACCEPTABLY HOUSED (a + b + c)	36	643	31	710				
a. INVOLUNTARILY SEPARATED	2	3	1	6				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLE HOUSED IN COMMUNITY	34	640	30	704				
10. VOLUNTARY SEPARATIONS	13	108	7	128	6	109	7	122
11. EFFECTIVE HOUSING REQUIREMENTS	490	2,338	222	3,050	341	2,255	221	2,817
12. HOUSING ASSETS (a + b)	452	1,615	187	2,254	322	1,569	170	2,061
a. UNDER MILITARY CONTROL	117	776	88	981	117	776	88	981
(1) HOUSED IN EXISTING DOD OWNED/CONTROLLED	117	776	88	981	117	776	88	981
(2) UNDER CONTRACT/APPROVED					0	0	0	0
(3) VACANT	0	0	0	0				
(4) INACTIVE	0	0	0	0				
b. PRIVATE HOUSING	335	839	99	1,273	205	793	82	1,080
(1) ACCEPTABLY HOUSED	324	811	96	1,231				
(2) ACCEPTABLE VACANT RENTAL	11	28	3	42				
13. EFFECTIVE HOUSING DEFICIT	38	723	35	796	19	686	51	756
14. PROPOSED PROJECT					0	50	0	50

15. REMARKS

DD FORM 1523, NOV 90

POST ACQUISITION CONSTRUCTION

Program (In Thousands)
FY 1997 Program $87,817
FY 1996 Program $85,059

Purpose and Scope

The Air Force operates approximately 120,000 family housing units. 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 siting, 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 $87,817,000 to fund projects in FY97.

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.

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	87,817

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
POST ACQUISITION CONSTRUCTION				87,817
PROJECTS TO IMPROVE FAMILY HOUSING	UN	1,020	86,095	(87,817)
SUBTOTAL				87,817
TOTAL CONTRACT COST				87,817
TOTAL REQUEST				87,817

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 $87.817 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 (PHASE 6)	158
PNQS954020	
- Improve one GOQ unit (PFY50). Repair roof/gutters, ceilings, interior plumbing; upgrade HVAC, electrical systems and bathrooms; replace kitchen appliances, windows, doors, fireplace hearths and water/sewer lines; refinish hardwood floors, window casing, fireplace mantels; repaint interior walls; clean brass hardware; relocate telephone wiring; add storage and cover patio; landscaping. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
IMPROVE FAMILY HOUSING	2,150
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)	4,714
NUEX9107014	
- improve 54 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	4,030
XQPZ960030	
- Improve 61 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	204
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, PS, PHA FTEV964002	2,600
- 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: FY96 Community Improvements project programmed IAW Housing Community Plan by phase, improved areas other thatn those addressed in this project.	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
HAWAII	
HICKAM AFB IMPROVE FAMILY HOUSING (PHASE 2) KNMD974401	13,539
- Improve 90 housing units. 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)
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	
NEBRASKA	
OFFUTT AFB	
IMPROVE MILITARY FAMILY HOUSING (PHASE 3)	7,500
SGBP960015	
- Improve 101 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	

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)
NEVADA	
NELLIS AFB	
IMPROVE FAMILY HOUSING INFRASTRUCTURE	212
RKMF944003	
- Construct a 6'6" high CMU reinforced split faced block wall approximately 1460' in length for privacy fencing around 13 senior officer housing units. Demolish existing chain link fence, posts and barbed wire. Install twelve industrial halogen street lights with associated wiring, PVC piping, trenching, and backfill at standard intervals.	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
NEW JERSEY	
MCGUIRE AFB	
COMMUNITY IMPROVEMENTS	6,597
PTFL974001	
- Interior and exterior modernization and renovation of 68 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)
NEW MEXICO	
CANNON AFB	
IMPROVE NEIGHBORHOOD	1,109
CZQZ920037	
- All materials and labor required to replace 105 existing street lights/poles and install an additional 98 new street lights, landscaping, and recreation (tot-lots) needed throughout the housing area. Work includes demolition of existing lig hting pedastals, poles/fixtures, wiring, playground sets, new landscaping in community areas and recreation areas.	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
NORTH DAKOTA	
GRAND FORKS AFB	
OIL WATER SEPARATORS	466
JFSD964001	
- Improve drainage at each of the four storm water outfalls for the family housing community. Install oil water separators on storm water outfalls in the family housing area. Work includes excavation, installation of new piping and oil water separators, backfill, seeding/sodding as needed.	
- 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	5,210
WWYK8703263	
- Improve 76 NCO units. Work includes replacing deteriorated cabinetry, plumbing fixtures, doors, windows, wood trim, floor covering, ceramic tile, and roofing. Reconfigure floor plans to improve functional layouts. Add square footage to two undersized unit types (approx 90 NSF). Neighborhood improvements include fences, sidewalks, driveways and storage sheds. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
VANCE AFB	
NEIGHBORHOOD IMPROVEMENTS	200
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)
SOUTH CAROLINA	
SHAW AFB	
IMPROVE ELECTRICAL DISTRIBUTION SYSTEM	1,300
VLSB940021	
- Replace the overhead electrical distribution system in the Shaw Manor Family Housing area with an underground distribution system. Provide concrete encased primary voltage ductbanks, pad-mounted transformers, pedestals, sectionalizing switches and conduit encased secondary conductors. Replace street lights. Includes demolition of existing equipment and connections to houses.	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
TEXAS	
RANDOLPH AFB	
IMPROVE CIRCLE HOUSING, PHASE 3	4,400
TYMX944000	
- Improve 40 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. Correct floor plan/unit layout deficiencies. Paint/landscape as required. Make other necessary repairs as required. (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)
TEXAS (CONT)	
SHEPPARD AFB	
IMPROVE MILITARY FAMILY HOUSING (PH 4)	4,580
VNVP974002	
- Improve 70 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, and landscape as required. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None.	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None.	
WYOMING	
F E WARREN AFB	
IMPROVE FAMILY HOUSING (PHASE 2)	5,019
GHLN961004	
- Improve 100 units. Construct gable truss roofs, addition of family rooms/bedrooms, relocate interior walls, enlarge and modify kitchens and bathrooms, replace cabinets and countertops, new doors and windows, replace flooring, new water heaters, alter ductwork, replace light fixtures and add GFI receptacles. Add unit landscaping, lawn irrigation, walks, entrances, and off-street parking.	
- 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	1,000
TYFR974005	
- Provide concrete bathroom towers for 40 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	2,331
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 balocnies 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)	7,050
AJJY964403R1	
- Improve 62 family housing units. Work includes enlarging the master bedroom, renovation of kitchen, bathroom, plumbing and electrical systems, and typhoon shutters; 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, playground and sidewalks.	
- 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. Upgrade utilities, repair of roofs and floors, upgrade kitchens, bathrooms, and living areas. Reconfigure/construct one interior wall to provide a more functional layout. Provide storage sheds, privacy fences, fire systems, insulation, carpet, storm porches, patios, and utility rooms. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
RAF LAKENHEATH	
IMPROVE FAMILY HOUSING	2,780
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	2,172
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 6)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
8.87.42	711-144	PNQS954020	158

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING (PHASE 6)	UN	1	113,000	113
SUPPORTING FACILITIES				33
LEAD BASED PAINT/ASBESTOS ABATEMENT	UN	1	17,000	(17)
STORAGE/COVERED PATIO	UN	1	13,000	(13)
LANDSCAPING	UN	1	3,000	(3)
SUBTOTAL				146
CONTINGENCY (5%)				7
TOTAL CONTRACT COST				153
SUPERVISION, INSPECTION AND OVERHEAD (3%)				5
TOTAL REQUEST				158
MOST EXPENSIVE UNIT $182,160				
AREA COST FACTOR 0.74				

10. Description of Proposed Construction: Improve one GOQ unit (PFY50). Repair roof/gutters, ceilings, interior plumbing; upgrade HVAC, electrical systems and bathrooms; replace kitchen appliances, windows, doors, fireplace hearths and water/sewer lines; refinish hardwood floors, window casing, fireplace mantels; repaint interior walls; clean brass hardware; relocate telephone wiring; add storage and cover patio; landscaping.

11. REQUIREMENT: 3,304 UN ADEQUATE: 2,070 UN SUBSTANDARD: 649 UN

PROJECT: Improve Military Family Housing (Phase 6). This phase includes work on one General Officer Quarters. (Current Mission)

REQUIREMENT: This project is required to provide adequate quarters for a general officer and family assigned to this installation. The housing unit must be upgraded to meet current life safety codes and to provide a comfortable and appealing living environment. This is the sixth phase of a multi-phased program to upgrade a total of six units.

CURRENT SITUATION: These quarters were constructed in the 1930's. They do not meet current Air Force criteria on energy conservation. The heating, ventilation and air conditioning systems are two different systems that do not provide adequate or efficient service. The interior electrical systems have deteriorated and present a safety hazard. The doors and windows have been painted repeatedly over the years and do not open or close properly. The bathrooms tiles are cracked and broken. The roofs have deteriorated and portions of the decks need replacement. Covered patios were built onto these quarters during the 1960's. They are in dire need of repairs and are not architecturally compatible with the quarters. The internal telephone wiring throughout these homes is mounted along the baseboards of the walls. The roofs have severe leaks. These units have inadequate space for storage.

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 6)	PNQS954020

IMPACT IF NOT PROVIDED: An Air Force general officer and his families will continue to suffer from an inappropriately low quality of life environment. The roofs will enter a failure mode, requiring ever increasing piecemeal repair and developing structural damage due to water leakage.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: These quarters have been 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
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	2,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	LS			1,401
UPGRADE JNCO 2BDR COTTAGES	UN	13	45,000	(585)
UPGRADE JNCO 4BDR DUPLEXS	UN	16	51,000	(816)
SUPPORTING FACILITIES				587
LEAD BASED PAINT/ASBESTOS ABATEMENT	LS			(117)
GARAGES/STORAGE/PATIO	LS			(200)
LANDSCAPING/PLAYGROUND	LS			(150)
NEIGHBORHOOD IMPROVEMENTS	LS			(120)
SUBTOTAL				1,988
CONTINGENCY (5%)				99
TOTAL CONTRACT COST				2,087
SUPERVISION, INSPECTION AND OVERHEAD (3%)				63
TOTAL REQUEST				2,150
MOST EXPENSIVE UNIT $69,000				
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. Grade Mix: 29 E5-E6.

11. REQUIREMENT: 3,304 UN ADEQUATE: 2,070 UN SUBSTANDARD: 649 UN
PROJECT: Improve Military Family Housing (Phase 4). This phase includes work in twenty nine 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

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

the basements continue to seep water through the concrete walls. The 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	4,714

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING PHASE 4	UN	54	53,900	2,911
SUPPORTING FACILITIES				1,448
UTILITIES/EMCS/COMM	LS			(162)
SITE IMPROVEMENTS	LS			(316)
PAVEMENTS/SIDEWALKS/SCREEN WALLS	LS			(305)
RECREATION	LS			(220)
NEIGHBORHOOD IMPROVEMENTS	LS			(240)
LANDSCAPING	LS			(205)
SUBTOTAL				4,359
CONTINGENCY (5%)				218
TOTAL CONTRACT COST				4,577
SUPERVISION, INSPECTION AND OVERHEAD (3%)				137
TOTAL REQUEST				4,714
MOST EXPENSIVE UNIT $98,872				
AREA COST FACTOR 1.00				

10. Description of Proposed Construction: improve 54 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. Grade Mix: 9 O1-O3; 3 O4-O10; 45 E5-E6; 1 E7-E9.

11. REQUIREMENT: 3,156 UN ADEQUATE: 2,218 UN SUBSTANDARD: 474 UN

PROJECT: Provide improvements and repairs to 54 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

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

repair, doors and flooring need replacement. The electrical system has 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	IMPROVE CAPEHART FAMILY HOUSING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-111	XQPZ960030	4,030

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE CAPEHART FAMILY HOUSING	UN	61	53,030	3,235
SUPPORTING FACILITIES				492
UTILITIES	UN	61	1,081	(66)
PARKING	UN	61	1,163	(71)
LANDSCAPING	UN	61	844	(51)
CLUSTER ENTRANCE	UN	61	1,295	(79)
ENVIRONMENTAL HAZARD MITIGATION	UN	61	2,521	(154)
RECREATION FACILITIES	LS			(71)
SUBTOTAL				3,727
CONTINGENCY (5%)				186
TOTAL CONTRACT COST				3,913
SUPERVISION, INSPECTION AND OVERHEAD (3%)				117
TOTAL REQUEST				4,030
MOST EXPENSIVE UNIT $88,046				
AREA COST FACTOR 1.06				

10. Description of Proposed Construction: Improve 61 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: 61 O4-O10.

11. REQUIREMENT: 1,481 UN ADEQUATE: 116 UN SUBSTANDARD: 1,113 UN
PROJECT: Provides improvements and repairs to 61 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.
IMPACT IF NOT PROVIDED: Occupants will continue to live in substandard

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

3. INSTALLATION AND LOCATION
USAF ACADEMY

4. PROJECT TITLE	5. PROJECT NUMBER
IMPROVE CAPEHART FAMILY HOUSING	XQPZ960030

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	13,539

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING (PHASE 2)	UN	90	106,690	9,602
SUPPORTING FACILITIES				2,917
UTILITIES	LS			(1,219)
RECREATIONAL FACILITIES	LS			(414)
LANDSCAPING	LS			(408)
PAVEMENTS	LS			(418)
ASBESTOS/LEAD BASED PAINT COMPLIANCE	LS			(458)
SUBTOTAL				12,519
CONTINGENCY (5%)				626
TOTAL CONTRACT COST				13,145
SUPERVISION, INSPECTION AND OVERHEAD (3%)				394
TOTAL REQUEST				13,539
MOST EXPENSIVE UNIT $141,700				
AREA COST FACTOR 1.64				

10. Description of Proposed Construction: Improve 90 housing units. 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: 685 UN SUBSTANDARD: 2,489 UN

PROJECT: Improve 90 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. 102 units have been upgraded or are approved in previous phases and 2387 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 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
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	41,080	2,136
SUPPORTING FACILITIES				2,223
ASBESTOS/LEAD-BASE PAINT ABATEMENT	LS			(342)
COMMUNITY IMPROVEMENTS	LS			(163)
UNDERGRONUD UTILITIES	LS			(898)
SANITARY SEWER	LS			(436)
LANDSCAPING	LS			(233)
ROAD AND SIDEWALK IMPROVEMENTS	LS			(151)
SUBTOTAL				4,359
CONTINGENCY (5%)				218
TOTAL CONTRACT COST				4,577
SUPERVISION, INSPECTION AND OVERHEAD (3%)				137
TOTAL REQUEST				4,714
MOST EXPENSIVE UNIT $65,400				
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 determental 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	7,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE MILITARY FAMILY HOUSING				
IMPROVE MILITARY FAMILY HOUSING (PH 3)	UN	101	44,580	4,503
SUPPORTING FACILITIES				2,432
LANDSCAPING	LS			(210)
RECREATION	LS			(147)
SITE PREPARATION	LS			(67)
ROADS AND PAVING	LS			(511)
UTILITIES	LS			(1,060)
DEMO (34 UNITS) ASBESTOS & LBP REMOVAL	LS			(437)
SUBTOTAL				6,935
CONTINGENCY (5%)				347
TOTAL CONTRACT COST				7,282
SUPERVISION, INSPECTION AND OVERHEAD (3%)				218
TOTAL REQUEST				7,500
MOST EXPENSIVE UNIT $94,352				
AREA COST FACTOR 0.98				

10. Description of Proposed Construction: Improve 101 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	6,597

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	68	76,970	5,234
SUPPORTING FACILITIES				866
STORM DRAINAGE	LS			(50)
SANITARY SERVICE	LS			(200)
WATER DISTRIBUTION	LS			(200)
ASBESTOS & LEAD BASE PAINT REMOVAL	LS			(210)
COMMUNITY IMPROVEMENTS	LS			(206)
SUBTOTAL				6,100
CONTINGENCY (5%)				305
TOTAL CONTRACT COST				6,405
SUPERVISION, INSPECTION AND OVERHEAD (3%)				192
TOTAL REQUEST				6,597
MOST EXPENSIVE UNIT $96,213				
AREA COST FACTOR 1.19				

10. Description of Proposed Construction: Interior and exterior modernization and renovation of 68 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 family housing (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 246 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.

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	5,210

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING PHASE 3	UN	76	58,770	4,467
SUPPORTING FACILITIES				350
LANDSCAPING	LS			(45)
FENCING/PATIO	LS			(26)
BULK STORAGE	LS			(54)
RECREATION	LS			(225)
SUBTOTAL				4,817
CONTINGENCY (5%)				241
TOTAL CONTRACT COST				5,058
SUPERVISION, INSPECTION AND OVERHEAD (3%)				152
TOTAL REQUEST				5,210
MOST EXPENSIVE UNIT $90,510				
AREA COST FACTOR 0.90				

10. Description of Proposed Construction: Improve 76 NCO units. Work includes replacing deteriorated cabinetry, plumbing fixtures, doors, windows, wood trim, floor covering, ceramic tile, and roofing. Reconfigure floor plans to improve functional layouts. Add square footage to two undersized unit types (approx 90 NSF). Neighborhood improvements include fences, sidewalks, driveways and storage sheds.
Grade Mix: 76 E5-E6.

11. REQUIREMENT: 5,526 UN ADEQUATE: 5,399 UN SUBSTANDARD: 376 UN
PROJECT: Improve 76 NCO quarters. (Current Mission)
REQUIREMENT: This project is required to provide adequate quarters for military members and their families assigned to this installation. Four bedroom units require a master bathroom. Additional parking is required to alleviate overcrowding and unsafe conditions. The housing must be upgraded to meet current life safety codes and to provide a comfortable and appealing living environment comparable to that found in the surrounding civilian community. This is the third of multiple phases to provide adequate housing for base personnel. Of the 262 units to be improved in this multi-phase initiative, 64 are completed or included in prior programs, and 122 will follow in subsequent phases. All units will meet "whole house" standards and are programmed in accordance with Phase 2 of the Housing Community Plan. Neighborhood improvements include landscaping, playgrounds, and recreation areas.
CURRENT SITUATION: The Appropriated housing units are over 20 years old, meet neither contemporary nor USAF standards and are in need of major exterior repair. The functional layouts of the four unit types do not meet USAF standards or fit the requirements of contemporary lifestyles. No improvement or major repairs have been made in these quarters beyond

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

routine maintenance and change of occupancy work. Kitchens are undersized with old flat paneled cabinetry that must be replaced. Washer and dryer connections are located in kitchen. Plumbing fixtures are old, corroded, and require replacement to prevent leaks and potential ruptures. Electrical systems do not meet current codes and are overloaded by modern appliances and electrical devices. Wood trim and ceramic tile are marred and stained. Carports are architecturally incompatible and provide no privacy or storage space.

IMPACT IF NOT PROVIDED: Existing housing units will continue to deteriorate. Morale problems will result if this initiative is not supported. Some people will continue to occupy inadequate housing while neighbors and friends are in improved units. The units will continue to be occupied until it becomes uninhabitable because adequate, affordable housing is not available. The current Housing Market Analysis shows a family housing deficit of 657 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 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	4,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE CIRCLE HOUSING, PHASE 3	LS			2,876
FY50 APPROPRIATED FAMILY HSG	UN	40	71,910	(2,876)
SUPPORTING FACILITIES				1,193
REMOVE ASBESTOS/LEAD-BASED PAINT	UN	40	29,820	(1,193)
SUBTOTAL				4,069
CONTINGENCY (5%)				203
TOTAL CONTRACT COST				4,272
SUPERVISION, INSPECTION AND OVERHEAD (3%)				128
TOTAL REQUEST				4,400
MOST EXPENSIVE UNIT $131,000				
AREA COST FACTOR 0.87				

10. Description of Proposed Construction: Improve 40 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. Correct floor plan/unit layout deficiencies. Paint/landscape as required. Make other necessary repairs as required.

11. REQUIREMENT: 3,280 UN ADEQUATE: 2,167 UN SUBSTANDARD: 757 UN
PROJECT: Provides for improvements and repairs to 40 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	4,580

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE MILITARY FAMILY HOUSING (PH 4)	UN	70	56,500	3,955
SUPPORTING FACILITIES				280
PAVEMENTS	LS			(75)
COMMUNITY IMPROVEMENTS	LS			(120)
LANDSCAPING	LS			(85)
SUBTOTAL				4,235
CONTINGENCY (5%)				212
TOTAL CONTRACT COST				4,447
SUPERVISION, INSPECTION AND OVERHEAD (3%)				133
TOTAL REQUEST				4,580
MOST EXPENSIVE UNIT $62,755				
AREA COST FACTOR 0.90				

10. Description of Proposed Construction: Improve 70 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, and landscape as required.
Grade Mix: 24 O1-O3; 46 E5-E6.

11. REQUIREMENT: 3,480 UN ADEQUATE: 1,844 UN SUBSTANDARD: 925 UN
PROJECT: Provide improvements and repairs to 70 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

1,985 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	2,331

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	44	17,818	784
SUPPORTING FACILITIES				1,371
REPLACE BALCONIES	EA	44	9,300	(409)
REPLACE ROOF (2 ROOFS/22 UNIT EA)	EA	44	21,864	(962)
SUBTOTAL				2,155
CONTINGENCY (5%)				108
TOTAL CONTRACT COST				2,263
SUPERVISION, INSPECTION AND OVERHEAD (3%)				68
TOTAL REQUEST				2,331
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 balocnies 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	UN	22	95,911	2,110
SUBTOTAL				2,110
CONTINGENCY (5%)				106
TOTAL CONTRACT COST				2,216
SUPERVISION, INSPECTION AND OVERHEAD (3%)				66
TOTAL REQUEST				2,282
MOST EXPENSIVE UNIT $118,582				
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
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	42,360	1,059
SUPPORTING FACILITIES				328
FIRE SPRINKLERS	UN	25	6,160	(154)
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. Upgrade utilities, repair of roofs and floors, upgrade kitchens, bathrooms, and living areas. Reconfigure/construct one interior wall to provide a more functional layout. Provide storage sheds, privacy fences, fire systems, insulation, carpet, storm porches, patios, and utility rooms.

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	2,780

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	32	80,310	2,570
SUBTOTAL				2,570
CONTINGENCY (5%)				129
TOTAL CONTRACT COST				2,699
SUPERVISION, INSPECTION AND OVERHEAD (3%)				81
TOTAL REQUEST				2,780
MOST EXPENSIVE UNIT $86,875				
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	2,172

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	53	34,397	1,823
SUPPORTING FACILITIES				186
CARPORT	EA	53	3,000	(159)
STORAGE SHED	EA	53	500	(27)
SUBTOTAL				2,009
CONTINGENCY (5%)				100
TOTAL CONTRACT COST				2,109
SUPERVISION, INSPECTION AND OVERHEAD (3%)				63
TOTAL REQUEST				2,172
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 is 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 $739,079

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 telephone.

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 proposed 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 1996 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 due to whole house improvement efforts.

* 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.

* Includes $4.0 million for contract cleaning at overseas locations only. The budgeted amount will allow cleaning of approximately 17,000 units at an average per unit cost of $256.00.

* Continuing the special effort to lower operations and maintenance costs in high cost quarters.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1996/97 BUDGET REQUEST

This budget request is for funds needed to meet must pay operations and utilities expenses, as well as the maintenance and repair of our existing housing inventory at over 110 major installations. We also provide referral services to members seeking housing in the private sector. The Air Force shares the concerns of the 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 $739,079,000. This amount, together with estimated reimbursements of $13,286,000, will fund the FY 1997 Operations and Maintenance program of $752,365,000.

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
$127,855	$196,957	$ 414,267	$ 739,079	$ 13,286	$752,365

EXHIBIT FH-2 Worldwide
MAJCOM: all

(Excludes Leases)

Inventory Data	FY 95		FY96		FY97	
Units in Beginning of Year	122,202		116,576		111,081	
Units at End of Year	116,576		111,081		111,377	
Average Inventory for Year	119,389		113,829		111,229	
Funding Requirements($000)	**Total Cost**	**Unit Cost**	**Total Cost**	**Unit Cost**	**Total Cost**	**Unit Cost**
Operations (Direct)						
Management	48,424	406	47,080	414	47,347	426
Services	33,781	283	33,177	291	33,412	300
Furnishings	43,840	367	43,000	378	43,278	389
Miscellaneous	5,794	49	5,678	50	5,711	51
SubTotal Gross Oblig.	131,839	1,104	128,935	1,133	129,748	1,166
Anticipated Reimbursements	2,408	20	1,926	17	1,893	17
Direct Obligation. Operations	129,431	1,084	127,009	1,116	127,855	1,149
Utilities - (TOA)	206,990	1,734	206,942	1,818	206,632	1,858
Anticipated Reimbursements	9,147	77	9,403	83	9,675	87
Direct Obligation Utilities	197,843	1,657	197,539	1,735	196,957	1,771
Maintenance						
M&R Dwellings	280,011	2,345	302,151	2,654	307,108	2,761
M&R Ext. Utilities	48,406	405	50,242	441	50,471	454
M&R Other Real Property	27,743	232	28,683	252	28,562	257
Alter & Add.	28,628	240	29,717	261	29,844	268
SubTotal Gross Obligations	386,564	3,238	410,793	3,609	415,985	3,740
Anticipated Reimbursements	1,776	15	1,822	16	1,718	15
Direct Obligation Maintenance	384,788	3,223	408,971	3,593	414,267	3,724
Grand Total, O&M - TOA	725,393	6,076	746,670	6,560	752,365	6,764
Grand Total, O&M - NOA	712,062	5,964	733,519	6,444	739,079	6,645

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

Operations ($ in Thousands)

FY 1996 Request	FY 1997 Request
$127,009	$127,855

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:

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST
RECONCILIATION OF INCREASES AND DECREASES
Exhibit OP-5

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 1995 Appropriation Conference Position:	$45,076
2.	Congressional Adjustments:	None
3.	FY 1995 Appropriated Amount:	$45,076
4.	Proposed Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers: Oahu Housing Transfer from the Army	$ 940
7.	Program Increases:	None
8.	Program Decreases:	None
9.	FY95 Current Estimate:	$46,016
10.	Price Growth:	$ 1,334
11.	Functional Program Transfer:	None
12.	Program Increases:	None
13.	Program Decrease: Base Closure, Drawdowns, Demolitions (-5,560 units)	$-2,196
14.	FY 1996 Budget Request:	$45,154
15.	Price Growth:	$ 1,355

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST
RECONCILIATION OF INCREASES AND DECREASES (MANAGEMENT CONTINUED)

Exhibit OP-5

16.	Functional Program Transfers:	None
17.	Program Increases:	None
18.	Program Decreases: Base Closure, Drawdowns, Demolitions (-2,600 units)	$-1,055
19.	FY 1997 Budget Request:	$45,454

Analysis of Change in Management

With fewer houses to support, the Management requirement is reduced. As a result of Round II/III Base Closure, Castle AFB, KI Sawyer AFB, Griffiss AFB, and Plattsburgh AFB were closed in FY95. March AFB will be closed in FY96 as a result of Round III Base Closure.

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.

There is no programmatic growth above inflation.

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 effected 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 1995 Appropriation Conference Position:	$32,724
2.	Congressional Adjustments:	None
3.	FY 1995 Appropriated Amount:	$32,724
4.	Proposed Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers: Oahu Housing Transfer from the Army	$1,057
7.	Program Increases:	None
8.	Program Decreases:	None
9.	FY95 Current Estimate:	$33,781
10.	Price Growth:	$980
11.	Functional Program Transfers:	None
12.	Program Increases:	None
13.	Program Decreases: Base Closure, Drawdowns, Demolitions (-5,560 units)	$-1,584

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MILITARY FAMILY HOUSING
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RECONCILIATION OF INCREASES AND DECREASES (SERVICES CONTINUED)

Exhibit OP-5

14.	FY 1996 Budget Request:	$33,177
15.	Price Growth:	$995
16.	Functional Program Transfers:	None
17.	Program Increases:	None
18.	Program Decreases: Base Closure, Drawdowns, Demolitions (-2600 units)	$-760
19.	FY 1997 Budget Request:	$33,412

Analysis of Changes in Services

With fewer houses to support, the Services requirement is reduced. As a result of Round II/III Base Closure, Castle AFB (933 units), KI Sawyer AFB (1,655 units), Griffiss AFB (950 units), and Plattsburgh AFB (1,639 units) are removed from Air Force housing inventory in FY95. March AFB (710 units) will be removed from inventory in FY96/97 as a result of Round III Base Closure.

There are no programmatic increases above inflation.

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.

While the exact number of military families and timing of the overseas draw down is still occurring, continued support of bases will remain open as 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 the appliances since rental units overseas do not have the same accommodations as are available in the states.

The furnishings account funds essential furnishings at levels consistent with cost/benefit studies and the need 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 allowance and other support appropriations.

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RECONCILIATION OF INCREASES AND DECREASES

Exhibit OP-5

1.	FY 1995 Appropriation Conference Position:	$42,852
2.	Congressional Adjustments:	None
3.	FY 1995 Appropriated Amount:	$42,852
4.	Proposed Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers: Oahu Housing Transfer from the Army	$ 988
7.	Program Increases:	None
8.	Program Decreases:	None
9.	FY95 Current Estimate:	$43,840
10.	Price Growth:	$ 1,271
11.	Functional Program Transfers:	None
12.	Program Increases:	None
13.	Program Decreases: Base Closure, Drawdowns, Demolitions (-5,560 units)	$-2,111
14.	FY 1996 Budget Request:	$43,000
15.	Price Growth:	$ 1,290
16.	Functional Program Transfers:	None
17.	Program Increases:	None
18.	Program Decreases: Base Closure, Drawdowns, Demolitions (-2600 units)	$ -1,012
19.	FY 1997 Budget Request:	$43,278

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FY 1997 BUDGET REQUEST
RECONCILIATION OF INCREASES AND DECREASES (FURNISHING CONTINUED)

Exhibit OP-5

Analysis of Changes in Furnishing

With fewer houses to support, the Furnishing requirement is reduced. As a result of Round II/III Base Closure, Castle AFB (933 units), KI Sawyer AFB (1,655 units), Griffiss AFB (950 units), and Plattsburgh AFB (1,639 units) are removed from Air Force housing inventory in FY95. March AFB (710 units) will be removed from inventory in FY96/97 as a result of Round III Base Closure.

There are no programmatic increases above inflation.

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RECONCILIATION OF INCREASES AND DECREASES
Exhibit OP-5

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 1995 Appropriation Conference Position:	$ 5,794
2.	Congressional Adjustments:	None
3.	FY 1995 Appropriated Amount:	$ 5,794
4.	Proposed Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers:	None
7.	Program Increases:	None
8.	Program Decreases:	None
9.	FY95 Current Estimate:	$ 5,794
10.	Price Growth:	$ 168
11.	Functional Program Transfers:	None
12.	Program Increases:	None
13.	Program Decreases: Base Closure, Drawdowns, Demolitions (-5,560)	$ -284
14.	FY 1996 Budget Request:	$ 5,678
15.	Price Growth:	$ 170

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RECONCILIATION OF INCREASES AND DECREASES (MISCELLANEOUS CONTINUED)

Exhibit OP-5

16.	Functional Program Transfers:	None
17.	Program Increases:	None
18.	Program Decreases: Base Closure, Drawdowns, Demolitions (-2600)	$ -137
19.	FY 1997 Budget Request:	$ 5,711

Analysis of Changes in Miscellaneous

With fewer houses to support, the Miscellaneous requirement is reduced. As a result of Round II/III Base Closure, Castle AFB (933 units), KI Sawyer AFB (1,655 units), Griffiss AFB (950 units), and Plattsburgh AFB (1,639 units) are removed from Air Force housing inventory in FY95. March AFB (710 units) will be removed from inventory in FY96/97 as a result of Round III Base Closure.

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 1995 Appropriation Conference Position:	$178,472
2.	Congressional Adjustments:	None
3.	FY 1995 Appropriated Amount:	$178,472
4.	Proposed Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers: Oahu Housing Transfer from the Army	$10,340
7.	Program Increases: Recalculation of requirement based on historical data to substantiate that FY 1995 was under budgeted. The FY 1993 actuals and FY 1994 estimated actuals confirmed the additional requirement for FY 1995.	$ 9,031
8.	Program Decreases:	None
9.	FY95 Current Estimate:	$197,843
10.	Price Growth:	
a.	Inflation	$ 5,737
b.	Foreign Currency Rate Adjustment to New Budgeted Rates	$ 5,300
11.	Functional Program Transfers:	None

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RECONCILIATION OF INCREASES AND DECREASES (UTILITIES CONTINUED)

Exhibit OP-5

12.	Program Increases:	None
13.	Program Decreases:	
a.	Energy Conservation Savings	$ -1,694
b.	Base Closure, Drawdowns, Demolitions (-5,560 units)	$ -9,647
14.	FY 1996 Budget Request:	$197,539
15.	Price Growth:	
	Inflation	$ 5,926
	Foreign Currency Rates Adjusted for New Budgeted Rates	$5,450
16.	Functional Program Transfers:	None
17.	Program Increases:	None
18.	Program Decreases:	
a.	Energy Conservation Savings	$ -6,863
b.	Base Closure, Drawdowns, Demolitions (-2600 units)	$ -4,605
c.	Fuel Inflation Adjustment	$ -490
19.	FY 1997 Budget Request:	$196,957

Analysis of Changes in Utilities

With fewer houses to support, the Utility requirement is reduced. As a result of Round II/III Base Closure, Castle AFB (933 units), KI Sawyer AFB (1,655 units), Griffiss AFB (950 units), and Plattsburgh AFB (1,639 units) are removed from Air Force housing inventory in FY95. March AFB (710) units will be removed from inventory in FY96/97 as a result of Round III Base Closure.

The burdensharing adjustments with Japan stabilize in FY95 and the downward trend does not appear in FY96 and out.

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RECONCILIATION OF INCREASES AND DECREASES (UTILITIES CONTINUED)

Exhibit OP-5

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 budgeted amount in the FY95 PB was below the historical projections based on an analysis of actual FY93 and actual estimates for FY94.

We anticipate realigning $9.0M into the Utilities Sub-Account during FY95 to fully fund the requirements based on historical trends from FY89/94. Therefore, after utility costs are corrected in FY95, 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.

UTILITIES (000K)

ENERGY CONSUMPTION	FY 94	FY95	FY96	FY97
Electricity	1,797	1,765	1,751	1,740
Fuel Oil (Bbls)	396	393	390	388
Natural Gas (KCF)	6,469	6,393	6,330	6,290
Coal (MBTUs)	392	360	356	352
Purchased Steam (MBTUs)	580	580	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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RECONCILIATION OF INCREASES AND DECREASES
Exhibit OP-5

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 1995 President's Budget:	$383,644
2.	Congressional Adjustments: Oahu	$ 23,500
3.	FY 1995 Appropriated Amount:	$407,144
4.	Proposed Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers: Spread Oahu Housing Transfer from the Army	$ -13,325
a.	Management (940)	
b.	Services (1,057)	
c.	Furnishings (988)	
d.	Utilities (10,340)	
7.	Program Increases:	None
8.	Program Decreases: Recalculation to support increased Utility requirement based on historical data from FY 1993/1996	$-9,031
9.	FY95 Current Estimate:	$384,788
10.	Price Growth:	
a.	Inflation	$ 11,159
b.	Foreign Currency Rates Adjusted for the Budgeted FCF Rates	$ 5,300
11.	Functional Program Transfers:	None
12.	Program Increases:	
a.	Additional Maintenance Dollars added to arrest DMAR growth	$33,564
b.	Quality of Life Increase	$ 3,500

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MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST
RECONCILIATION OF INCREASES AND DECREASES (MAINTENANCE CONTINUED)

Exhibit OP-5

13.	Program Decreases:	
a.	Fewer Units to support as a result of Base Closures, Drawdowns, Demolitions (-5,560 units)	$-19,194
b.	Proper Inflation Adjustment	$- 6,146
c.	Nonpay Purchase Inflation Adjustment	$- 4,000
14.	FY 1996 Budget Request:	$408,971
15.	Price Growth:	
a.	Inflation	$ 12,269
b.	Foreign Currency Rates Adjusted to the New Budgeted Rates	$5,450
16.	Functional Program Transfers:	None
17.	Program Increases:	None
18.	Program Decreases:	
a.	Base Closures, Drawdowns, Demolitions (-2600 units)	$- 8,423
b.	Nonpay Purchase Inflation Adjustment	$- 4,000
19.	FY 1997 Budget Request:	$414,267

Analysis of Changes in Maintenance Program

The above funding profile includes one change to the FY95 appropriated level. We anticipate realigning $9.0M during FY95 to the Utility Sub-Account to fully fund the requirements based on historical trends from FY89/94.

With fewer houses to support, the Maintenance requirement is reduced. As a result of Round II/III Base Closure, Castle AFB (933 units), KI Sawyer AFB (1,655 units), Griffiss AFB (950 units), and Plattsburgh AFB (1,639 units) are removed from Air Force housing inventory in FY95. March AFB (710 units) will be removed from inventory in FY96 as a result of Round III Base Closure.

Previously limited maintenance funding and a high occupant turnover has accelerated deterioration of the Air Force's aging housing inventory.

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MILITARY FAMILY HOUSING
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RECONCILIATION OF INCREASES AND DECREASES (MAINTENANCE CONTINUED)

Exhibit OP-5

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.

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). This year, the Air Force has made a concerted effort to scrub DMAR requirements. 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.). The Total Maintenance requirements reflected on the DMAR chart (on the following page), reflects only those projects which are required to meet and sustain approved standards.

This request reflects the decision to fund maintenance at a level which partially arrests DMAR growth. As reflected in the DMAR chart, this level of funding will reduce the DMAR growth beginning in FY96.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

The following chart illustrates the Backlog of Deferred Maintenance (In then Year $M).

Fiscal Year	FY 93	FY94	FY95	FY96	FY97
Backlog Proj		1,032	800	913	928
Backlog Actual	1,311	755	865	TBD	TBD
Closure Offset	- 223	0	0	0	0
O&M Requirement*	441	431	433	424	427
Total Requirement	1,529	1,186	1,298	1,337	1,355
O&M Funding	497	386	385	409	414
O&M Backlog EOY	1,032	800	913	928	941
Backlog Red/ (Growth)	279	(45)	(48)	(15)	(13)
Inventory	128,083	122,077	119,389	113,829	111,229

* Adjusted to revised inflation and inventory numbers.

A one time adjustment occurred at the end of FY93. The FY93 Year-End Backlog of $1,032M was reduced to $755M at the start of FY94 due to three reasons: (1) A reduction of $121M in BRAC III projects removed from the list, (2) $42M due to bid savings (a more favorable bid environment), and (3) $95M for projects that were dropped from the list due to a revalidation of requirements. The BRAC units will be closed between FY95 and the end of FY96.

There is an impact on M&R requirements and the DMAR when the level of investment funding is lower than the requirement. We generally have projected the investment impact but have chosen not to use these numbers in the future since the tracking of the unfunded investment program and the related interface with maintenance costs vary so greatly over time that accurate projections become subjective. While we cannot precisely track the value, there are obvious impacts to the O&M program. An investment requirement not funded results in a maintenance requirement that is exceedingly more costly than a newly renovated facility.

If "whole house" renovations are delayed for too long, emergency projects to fix specific systems (i.e. roofs) must be accomplished in the interim, driving up life-cycle costs.

This new method of displaying DMAR has been successful in projecting costs since it requires an annual project validation. This method will bring more discipline and accuracy to our DMAR numbers.

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.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET ESTIMATE

HISTORICAL HOUSING COST
($ IN THOUSANDS)

	FY 1994	FY 1995	FY 1996	FY 1997
A. Number of Units	1,511	1,511	1,511	1,511
B. Improvements	$ 5,814	$ 5,030	$ 3,414	$9,027
C. Maint & Repair	$ 2,824	$ 2,401	$2,468	$2,540
GRAND TOTAL	$ 8,638	$ 7,431	$5,882	$12,440

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

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.

UNITED STATES

Location	No. Units	Year Built	Per Unit Cost	Unit (NSF)	Proj (NSF)	Total Cost($K)	Improvements/ Non-Routine M&R $K FY89-93)
CALIFORNIA							
Vandenberg	172	1959	19.5	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.

ILLINOIS							
Scott	6	1940	26.6	1,737	10,422	159.8	75.0

Narrative: Work 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. These 50 year old units are overdue for these repairs/renovations.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST

FAMILY HOUSING REPAIRS
(Exceeding $15K Threshold)

Location	No. Units	Year Built	Per Unit Cost	Unit (NSF)	Proj (NSF)	Total Cost($K)	Improvements/ Non-Routine M&R $K FY89-93)
TEXAS							
Sheppard	46	1952	33.0	1,100	50,600	1,518	101.6

Narrative: Renovate kitchen/baths; replace roofs, floor coverings, interior and exterior doors, window blinds, water heater vents, switches, HVAC units, and diffusers. Install ground fault interrupters, doorbells, and rain gutters; paint interiors.

OVERSEAS							
GUAM							
Andersen	100	1960	36	1,150	115,000	3,600.0	None

Narrative: Phase 8 of a multiphased project that will replace severely deteriorated elastomeric foam roofs with built-up roofs.

JAPAN							
Kadena	65	1951	20.0	1,080	70,200	1,300.0	None
	25	1948	20.0	942	23,550	500.0	None

Narrative: Phase 2 of a multiphased project to replace interior electrical wiring, switches, outlets, light fixtures, and fuse boxes. The wiring system has reached the end of its useful life and has neither ground wires included with the house wiring nor ground fault interrupters. Project will modernize house wiring system to meet current standards.

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.

Location	Qtrs ID	Size NSF	Year Built	Oper Total	Util Total	Maint Total	Ttl O&M	High Cost	Improvements Non-Routine ($K FY90-94)

None at this time

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 1995 Appropriation Conference Position:	$11,139
2.	Congressional Adjustments:	None
3.	FY 1995 Appropriated Amount:	$11,139
4.	Proposed Supplementals:	None
5.	Price Growth:	None
6.	Functional Program Transfers:	None
7.	Program Increases: Net Proceed from the sale of military family housing (including related land improvements)	$2,192
8.	Program Decreases:	None
9.	FY95 Current Estimate:	$13,331
10.	Price Growth:	$ 387
11.	Functional Program Transfers:	None
12.	Program Increases:	None
13.	Program Decreases: Base Closure Drawdowns and Demolition (-5560 units)	$ -567
14.	FY 1996 Budget Request:	$13,151

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST
RECONCILIATION OF INCREASES AND DECREASES
Exhibit OP-5

15.	Price Growth:	$ 382
16.	Functional Program Transfers:	None
17.	Program Increases:	None
18.	Program Decreases:	
a.	Base Closure Drawdowns, Demolitions (-2600 units)	$ -247
19.	FY 1997 Budget Request:	$13,286

Analysis of Changes in Reimbursements

Proceeds from the sale of Military Family Housing occured in FY94. In order to make the disbursement of $2.2M from the proceed of the sale of the housing units, additional reimbursement authority is required in FY95.

With fewer houses to support, the reimbursement requirement is reduced. As a result of Round II Base Closure, Castle AFB (933 units), KI Sawyer AFB (1,655 units), Griffis AFB (950 units), and Plattsburgh AFB (1,639 units) are removed from Air Force housing inventory. March AFB (710 units) will be removed from inventory in FY96 as a result of Round III Base Closure.

Leasing. Provides for payment of leasing costs of privately owned housing units used for assignment as government quarters. The family housing leasing program provides housing 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.

Authorization is requested for appropriation of $115,665,000 to fund leases and related expenses in FY96 and $118,048,000 in FY97. The FY 1996/97 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. The Air Force is using approximately one-half of the authorized foreign lease points. Air Force strategy during the drawdown in Europe 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 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 for 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 restructuring to maximize cost effective solutions.

The lease at Comiso Italy is a special case where repeated efforts by the Air Force to achieve a cost effective solution for termination of the lease have not yet been successful. Therefore, another annual lease payment of $7.3 million is required even though a buy-out of the lease for $9.5 million would be the most cost effective long-term solution by saving the U.S. $4.1 million over the life of the contract. The appropriations conference allowed us to buy-out the lease within existing resources however the authorizations conference was silent on this issue.

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 testing 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 307 units of the Eielson AFB project will be occupied by 1997. In addition, as part of a combined project with the Naval District of Washington, 828 units for Andrews AFB are scheduled for full occupancy by the 4th quarter of FY95.

DEPARTMENT OF
THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1997 BUDGET REQUEST
RECONCILIATION OF INCREASES AND DECREASES (LEASING CONTINUED)
Exhibit OP-5

Domestic Leasing

Domestic leasing provides temporary housing for Air Force families pending availability of permanent housing. For example, Onizuka's Domestic leasing project has provided interim relief for service families assigned to the San Francisco area pending transfer of Moffett NAS housing of the Air Force. This has been an excellent transition procedure to support families in a 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.

1.	FY 1995 Appropriation Conference Position:	$112,757
2.	Congressional Adjustments:	None
3.	FY 1995 Appropriated Amount:	$112,757
4.	Proposed Supplementals:	None
5.	Price Growth:	
6.	Functional Program Transfers:	None
7.	Program Increases:	None
8.	Program Decreases:	None
9.	FY95 Current Estimate:	$112,757
10.	Price Growth:	$ 3,270
11.	Functional Program Transfers:	None

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1996/97 BUDGET REQUEST
RECONCILIATION OF INCREASES AND DECREASES (LEASING CONTINUED)
Exhibit OP-5

12.	Program Increases: Mission adjustment from realignments primarily Singapore, partial occupancy of the Eielson and Andrews AFB Section 801 Leases	$ 6,729
13.	Program Decreases: Number of Leases, Domestic and Foreign reduced by actual amounts due to changes in Lease agreements	-$ 7,091
14.	FY 1996 Budget Request:	$115,665
15.	Price Growth:	$ 3,470
16.	Functional Program Transfers:	None
17.	Program Increases: Additional Occupancy of the Eielson and Andrews AFB Section 801 Leases	$ 2,937
18.	Program Decreases: Primarily Base Closure at March AFB (200 Lease Units)	-$ 4,024
19.	FY 1997 Budget Request:	$118,048

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	$686	55	660	$686	55	660	$686
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
Unassigned	3,076	0	$0	3,109	0	$0	3,111	0	$0
TOTAL DOMESTIC LEASES	3,333	3,104	$2,579	3,333	2,688	$2,233	3,333	2,664	$2,220
FOREIGN LEASES									
Jordan (43)	2	24	$40	2	24	$43	2	24	$46
Cairo, Egypt (51)	3	36	$44	3	36	$109	3	36	$109
Nairobi, Kenya (51)	1	12	$24	1	12	$50	1	12	$50
Asmara, Eritea (51)	1	12	$23	1	12	$23	1	12	$23
Bangkok (53)	7	84	$150	7	84	$156	7	84	$162
Classified Location (53)	3	36	$108	3	36	$114	3	36	$120
Lajes (78)	1	3	$2	0	0	$0	0	0	$0
Oson (74)	276	3,312	$3,573	276	3,312	$3,615	276	3,312	$4,261
Singapore (74)	0	0	$0	120	1,440	$3,857	120	1,440	$4,059
Alconbury (80)	250	3,000	$2,617	250	3,000	$2,617	250	3,000	$2,617
Ankara (80)	32	384	$521	32	384	$521	32	384	$521
Aviano (80)	857	8,970	$9,058	857	9,873	$9,147	857	9,873	$8,852
ntwaters (80)	293	3,516	$3,794	293	3,516	$3,794	293	3,516	$3,794
omiso (80)	460	5,520	$7,383	460	5,520	$7,303	460	5,520	$7,303
Geilenkirchen (80)	1	12	$27	1	12	$27	1	12	$27
Incirlik (80)	110	1,320	$2,332	110	1,320	$2,332	110	1,320	$2,332
Izmir (80)	10	120	$309	10	120	$309	10	120	$309
Kalkar (80)	36	432	$697	36	432	$697	36	432	$697
Lakenheath (80)	1,065	11,540	$10,287	1,065	11,440	$9,529	1,065	11,440	$9,223
Stavenger (80)	1	12	$90	1	12	$90	1	12	$0
Paris (80)	0	0	$0	0	0	$0	0	0	$0
Ramstein (80)	521	5,232	$6,125	521	5,082	$5,357	521	6,252	$6,125
Rhein Main (80)	225	2,700	$3,540	226	2,490	$2,814	226	2,293	$2,300
Rome (80)	0	0	$0	0	0	$0	0	0	$0
San Vito (80)	150	1,800	$2,400	150	1,800	$2,400	150	1,800	$2,324
Soesterberg (80)	0	0	$0	0	0	$0	0	0	$0
Spangdahlem (80)	500	6,000	$6,240	500	6,000	$6,240	500	6,000	$6,240
Upper Heyford (80)	50	600	$692	50	600	$692	50	600	$692
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	4,357	0	$0	4,236	0	$0	4,236	0	$0
Estimated Termation Costs	0	0	0	0	0	0	0	0	0
Soesterberg (80)	0	0	$333	0	0	0	0	0	0
TOTAL FOREIGN LEASES	9,201	54,554	$60,103	9,201	56,437	$61,426	9,201	57,410	$62,271
GRAND TOTAL FH-4	12,534	57,658	$62,682	12,534	59,125	$63,659	12,534	60,074	$64,491

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Exhibit FH-4

FAMILY HOUSING, DEPARTMENT OF THE AIR FORCE
ANALYSIS OF HIGH COST LEASED UNITS
(Other than Section 801)
FY 1996 and FY 1997

LOCATION	FY97 TOTAL LEASES Per Country	FY94 HIGH COST UNITS	FY94 HIGH COST Defined	FY94 EST COST	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		15	12,000	206,000	15	12,000	207,060	15	12,000	208,100	15	12,000	209,000
Onizuka, Ca		67	to	142,000	0	to	0	0	to	0	0	to	0
None Over $14K per Year		0	14,000		0	14,000		0	14,000		0	14,000	
Sub-Total Domestic	224	82		348,000	15		207,060	15		208,100	15		209,000
FOREIGN LEASES													
*Geilenkirchen, Germany	1,283	1	25,590	27,000	1	23,953	27,000	1	23,953	27,000	1	23,953	27,000
*Izmir, Turkey	164	1	2,968	35,900	1	1,071	31,785	1	1,071	31,785	1	1,071	31,785
*Izmir, Turkey	164	1	2,968	64,773	1	1,071	57,350	1	1,071	57,350	1	1,071	57,350
*Izmir, Turkey	164	1	2,968	63,600	1	1,071	56,310	1	1,071	56,310	1	1,071	56,310
*Izmir, Turkey	164	1	2,968	39,650	1	1,071	35,110	1	1,071	35,110	1	1,071	35,110
*Izmir, Turkey	164	1	2,968	38,300	1	1,071	33,910	1	1,071	33,910	1	1,071	33,910
*Izmir, Turkey	164	1	2,968	22,700	1	1,071	20,100	1	1,071	20,100	1	1,071	20,100
*Izmir, Turkey	164	1	2,968	22,900	1	1,071	20,272	1	1,071	20,272	1	1,071	20,272
*Izmir, Turkey	164	1	2,968	22,400	1	1,071	19,830	1	1,071	19,830	1	1,071	19,830
*Izmir, Turkey	164	1	2,968	38,777	1	1,071	34,333	1	1,071	34,333	1	1,071	34,333
**Oslo, Norway	0	0	11,994	41,000	0			0			0		
**Stavanger, Norway	1	1	11,994	41,000	1	20,080	90,000	1	20,080	90,000	1	20,080	90,000
Sembawang, Singapore								120		3,857,000	120		4,059,000
***Paris, France	1	N/A	N/A	35,000	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0
***Copenhagen, Denmark	4	N/A	N/A	31,000	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	40,000	N/A	N/A	43,000	N/A	N/A	46,000
***Asmara, Eritea	1	N/A	N/A	35,000	N/A	N/A	23,000	N/A	N/A	23,000	N/A	N/A	23,000
***Cairo, Egypt	3	N/A	N/A	102,000	N/A	N/A	109,000	N/A	N/A	109,000	N/A	N/A	109,000
***Nairobi, Kenya	2	N/A	N/A	22,000	N/A	N/A	50,000	N/A	N/A	50,000	N/A	N/A	50,000
***Bangkok, Thailand	7	N/A	N/A	142,000	N/A	N/A	150,000	N/A	N/A	156,000	N/A	N/A	162,000
Classified Location	3	N/A	N/A	103,000	N/A	N/A	108,000	N/A	N/A	114,000	N/A	N/A	120,000
Sub-Total Foreign		11		966,000	11		933,000	131		4,805,000	131		5,022,000
GRAND TOTAL FH-4A		93	N/A	1,314,000	26	N/A	1,140,060	146	N/A	5,013,100	146	N/A	5,231,000

Exhibit FH-4A

The HIGH COST domestic leases range between $12k and $14k per year. No domestic lease exceeds $14K per year.

* The 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

tate Department pool leases do not count against the total number of high cost s allowed.

FAMILY HOUSING, DEPARTMENT OF THE AIR FORCE
SECTION 801 FAMILY HOUSING SUMMARY
(Dollars In Thousands)

FY 1997

LOCATION	NO. OF UNITS	FY OF INITIAL AUTH	DATE OF AWARD	DATE OF FULL OCCUP	FY95 COSTS	FY96 UNITS	FY96 COSTS	FY97 UNITS	FY97 COSTS
Hanscom AFB, MA	163	FY84	SEP 85	OCT 87	$3,183	163	$2,834	163	$2,845
Goodfellow AFB, TX	200	FY86	SEP 86	JAN 88	$2,131	200	$2,155	200	$2,220
Andrews AFB MD	828	FY90	SEP 91	SEPT 95	$7,952	828	$10,417	828	$12,361
Hurlburt AFB FL	300	FY90	JUN 90	JUL 92	$3,399	300	$3,275	300	$3,312
March AFB, CA	200	FY86	NOV 87	NOV 88	$1,656	200	$1,056	0	$0
Travis AFB, CA	300	FY88	SEP 89	AUG 91	$4,058	300	$4,058	300	$4,091
Eielson AFB, AK	300	FY84	JAN 85	JUL 86	$5,065	300	$4,901	300	$4,940
Eielson AFB, AK	366	FY91	SEP 91	AUG 97	$4,262	280	$6,241	366	$6,719
Ellsworth AFB (2), SD	828	FY88	AUG 89	JUN 91	$10,413	828	$10,413	828	$10,413
Ellsworth AFB, SD	200	FY88	JUN 89	JUL 90	$2,590	200	$2,590	200	$2,590
Cannon AFB, NM	350	FY88	JUN 91	AUG93	$4,066	350	$4,066	350	$4,066
SIOH Estimate/Maintenance					$1,300				
ANNUAL REQUIREMENT	4,035	N/A	N/A	N/A	$50,075	3,949	$52,006	3,835	$53,557
Unused Lease Points	1,765				$0	1,851	$0	1,965	$0
GRAND TOTAL FH-5	5,800	N/A	N/A	N/A	$50,075	5,800	$52,006	5,800	$53,557

ANDREWS SCHEDULE ---------- 229 UNITS have been delivered by the end of Jan 95; projected delivery includes 65 UNITS, Feb 95; 104 UNITS, May 95; 88 UNITS, JUN 95; 84 UNITS, July 95; 56 UNITS, AUG 95; and 202 UNITS, Sept 95; which delivers the last of the 828 UNITS.

EIELSON SCHEDULE ---------- 30 UNITS, JUNE 95; 37 UNITS, AUG 95 and 91 UNITS, SEPT 95 for 158 UNITS in FY 95; 24 UNITS, OCT 95; 35 UNITS, NOVEMBER 95; 36 UNITS, MARCH 96; 27 UNITS, AUG 95 for 280 UNITS in operation in FY 96; 35 UNITS, JAN 97; 35 UNITS, MARCH 97; and 16 units in AUG 97 for ALL 366 UNITS operating by end of FY 97.

DEBT PAYMENT

Program (in Thousands)
FY 1997 Program $30
FY 1996 Program $29

Purpose and Scope

The Debt Payment program continues in FY 1996/97 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 $29,000 for FY96 and $30,000 for FY97 as follows:

($ In Thousands)	FY 1995 ESTIMATE	FY 1996 ESTIMATE	FY 1997 ESTIMATE
Servicemen's Mortgage Insurance Premiums	26	29	30
TOTAL OBLIGATING AUTHORITY (TOA)	26	29	30
Principal Payment			
Capehart	0	0	0
Wherry	0	0	0
Subtotal	0	0	0
TOTAL REQUIREMENTS (BUDGET AUTHORITY PLUS APPROPRIATION):	26	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 1995, FY 1996 and FY 1997 is as follows:

Fiscal Year	Number	Average Payment/YR	Amount($000)
1995	143	182	26
1996	160	182	29
1997	165	182	30