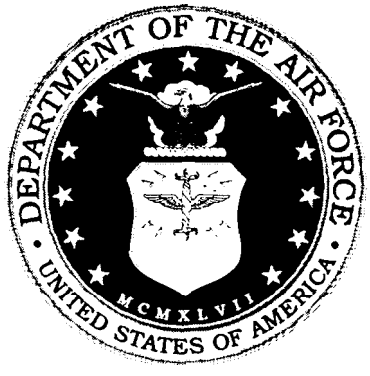

Department of the Air Force

Military Construction and Family Housing Program

Fiscal Year (FY) 2002
Amended Budget Submission

Justification Data Submitted to Congress
June 2001

This administration has not addressed **FY2003-2007** requirements. **All FY2003-2007** budget estimates included in this book are notional only and subject to change

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Table of Contents

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Table Of Contents
Fiscal Year (FY) 2002
Amended Budget Submission

Table Of Contents
Fiscal Year (FY) 2002
Amended Budget Submission

Family Housing

Program Summary

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FISCAL YEAR 2002

	APPROP AMOUNT	AUTH FOR APPROP
MILITARY CONSTRUCTION	(Sec 2301)	(Sec 2304)
Inside the United States	709,478	709,478
Outside the United States	268,392	268,392
Planning and Design (10 USC 2807)	79,130	79,130
Unspecified Minor Construction (10 USC 2805)	11,250	11,250
TOTAL MILITARY CONSTRUCTION	**1,068,250**	**1,068,250**
MILITARY FAMILY HOUSING	**(Sec 2302/2303)**	(Sec 2304)
New Construction	140,800	140,800
Improvements	352,879	352,879
Planning and Design	24,558	24,558
Subtotal	518,237	518,237
Operations, Utilities, and Maintenance	730,761	730,761
Housing Privatization	35,406	35,406
Leasing	102,919	102,919
Debt Payment	35	35
Subtotal	869,121	869,121
TOTAL MILITARY FAMILY HOUSING	**1,387,358**	**1,387,358**
GRAND TOTAL AIR FORCE	**2,455,608**	**2,455,608**

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Military Construction

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State Summary

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DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT		APPROP REQUEST	AUTH FOR APPROP	PAGE
TEXAS					
Lackland AFB					
	Consolidate Joint Advanced Language Training Center		4,200	4,200	227
	Dormitory		8,600	8,600	230
		Lackland TOTAL:	**12,800**	**12,800**	
Laughlin AFB					
	Add/Alter Fitness Center		12,000	12,000	234
		Laughlin TOTAL:	**12,000**	**12,000**	
Sheppard AFB					
	Replace Student Dormitory/Dining Fac (140 RM)		16,000	16,000	238
	Student Dormitory/Dining Facility (160 RM)		21,000	21,000	242
		Sheppard TOTAL:	**37,000**	**37,000**	
		TEXAS TOTAL:	**61,800**	**61,800**	
UTAH					
Hill AFB					
	Consolidate Hydraulic/Pneudraulic Repair Facility		14,000	14,000	246
		Hill TOTAL:	**14,000**	**14,000**	
		UTAH TOTAL:	**14,000**	**14,000**	
VIRGINIA					
Langley AFB					
	Dormitory		8,300	8,300	250
	F-22 Low Observ. Restoration & Comp Rpr Fac		16,000	16,000	253
	F-22 Operations and Maintenance Facility		19,000	19,000	256
	F-22 Upgrade Flightline Infrastructure		4,000	4,000	259
		Langley TOTAL:	**47,300**	**47,300**	
		VIRGINIA TOTAL:	**47,300**	**47,300**	

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
INSIDE THE U.S.

STATE/COUNTRY / INSTALLATION	PROJECT	APPROP REQUEST	AUTH FOR APPROP	PAGE
WASHINGTON				
Fairchild AFB				
	Replace Munitions Maint Admin Facility	**2,800**	**2,800**	**263**
	Fairchild TOTAL:	**2,800**	**2,800**	
McChord AFB				
	Add/Alter Mission Support Center, Ph 1	15,800	**15,800**	**266**
	C-l 7 Extend Nose Docks	**4,900**	**4,900**	**269**
	McChord TOTAL:	**20,700**	**20,700**	
	WASHINGTON TOTAL:	**23,500**	**23,500**	
WYOMING				
F. E. Warren AFB				
	Fitness Center	10,200	**10,200**	**272**
	F. E. Warren TOTAL:	**10,200**	**10,200**	
	WYOMING TOTAL:	**10,200**	10,200	
Classified Location				
	Tactical Unit Detachment Facility	4,458	4,458	276
	Classified TOTAL:	**4,458**	**4,458**	
	INSIDE THE U.S. TOTAL:	**709,478**	**709,478**	

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
OUTSIDE THE U.S.

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
OUTSIDE THE U.S.

DEPARTMENT OF THE AIR FORCE
INDEX
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002

(DOLLARS IN THOUSANDS)
OUTSIDE THE U.S.

New Mission/Current Mission

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DEFINITIONS OF NEW AND CURRENT MISSION

NEW MISSION PROJECTS - New mission projects all support new and additional programs or initiatives that do not revitalize the existing physical plant. These projects support the deployment and beddown of new weapons systems; new or additional aircraft, missile, and space projects; and new equipment, i.e. radar, communication, computer satellite tracking and electronic security. Planning and design and unspecified minor construction (P-341) are also included in this category.

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

FY 02	APPROP ($000)	AUTH FOR APPROP ($000)
NEW MISSION	$210,558	$210,558
CURRENT MISSION	$757,162	$757,162
PLANNING & DESIGN	$79,130	$79,130
MINOR CONSTRUCTION	$11,250	$11,250
TOTAL:	$ 1,068,250	$1,068,250

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)

INSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT TITLE	APPROP REQUEST	AUTH FOR APPROP	TYPE
ALABAMA				
Maxwell AFB				
	ADAL SOS Academic Facility	9,000	9,000	CM
	Replace OTS Dormitory (120 RM)	11,800	11,800	CM
	Squadron Officer School Dormitory	13,600	13,600	CM
	Maxwell AFB TOTAL:	34,400	34,400	
	ALABAMA TOTAL:	34,400	34,400	
ALASKA				
Eareckson AS				
	Upgrade Wastewater System	4,600	4,600	ENV
	Eareckson AS TOTAL:	4,600	4,600	
Elmendorf AFB				
	Add/Alter Aircraft Fuel System Maintenance Hangar	12,200	12,200	CM
	Dormitory	20,000	20,000	CMD
	Elmendorf AFB TOTAL:	32,200	32,200	
	ALASKA TOTAL:	36,800	36,800	
ARIZONA				
Davis-Monthan AFB				
	Dormitory	8,700	8,700	CMD
	Replace Aircraft Reclamation/Parts Process Complex	8,600	8,600	CM
	Davis-Monthan AFB TOTAL:	17,300	17,300	
	ARIZONA TOTAL:	17,300	17,300	
ARKANSAS				
Little Rock AFB				
	C-130J Flight Simulator Facility	10,600	10,600	NM
	Little Rock AFB TOTAL:	10,600	10,600	
	ARKANSAS TOTAL:	10,600	10,600	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)

INSIDE THE U.S.

STATE/COUNTRY / INSTALLATION	PROJECT TITLE	APPROP REQUEST	AUTH FOR APPROP	TYPE
CALIFORNIA				
Edwards AFB				
	ADAL Terminal Area Control Facility	4,600	4,600	CM
	Consolidated Support Facility	11,700	11,700	CM
	Edwards AFB TOTAL:	16,300	16,300	
Los Angeles AFB				
	Consolidated Base Support Complex	23,000	23,000	CM
	Los Angeles AFB TOTAL:	23,000	23,000	
Travis AFB				
	Replace Support Facility	6,800	6,800	CM
	Travis AFB TOTAL:	6,800	6,800	
Vandenberg AFB				
	Missile Transport Bridge	11,800	11,800	CM
	Vandenberg AFB TOTAL:	11,800	11,800	
	CALIFORNIA TOTAL:	57,900	57,900	
COLORADO				
Buckley AFB				
	Dormitory	11,200	11,200	CMD
	Fitness Center	12,000	12,000	CM
	Buckley AFB TOTAL:	23,200	23,200	
Schriever AFB				
	SBIRS Mission Control Station Backup	19,000	19,000	NM
	Schriever AFB TOTAL:	19,000	19,000	
USAFA				
	ADAL Athletic Facilities, PH 2	11,400	11,400	CM
	Install Air Conditioning - Enlisted Dorm	1,300	1,300	CM
	Replace Control Tower	6,400	6,400	CM
	Upgrade Potable Water System, Cadet Area	6,400	6,400	CM
	USAFA TOTAL:	25,500	25,500	
	COLORADO TOTAL:	67,700	67,700	
DISTRICT OF COLUMBIA				
Bolling AFB				
	Add/Alter Chapel Center	2,900	2,900	CM
	Bolling AFB TOTAL:	2,900	2,900	
	DISTRICT OF COLUMBIA TOTAL:	2,900	2,900	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)

INSIDE THE U.S.

STATE/COUNTRY / INSTALLATION	PROJECT TITLE	APPROP REQUEST	AUTH FOR APPROP	TYPE
FLORIDA				
Cape Canaveral AS				
	Replace Fire/Crash Rescue Station	7,800	7,800	CM
	Cape Canaveral AS TOTAL:	7,800	7,800	
Eglin AFB				
	Command and Control (C2) Test Operations Center	11,400	11,400	NM
	Eglin AFB TOTAL:	11,400	11,400	
Hurlburt Field				
	Consolidated Communication Facility	4,000	4,000	CM
	Dining Facility/Fitness Center	6,400	6,400	CM
	Hurlburt Field TOTAL:	10,400	10,400	
MacDill AFB				
	Mission Planning Center, Ph 1	10,000	10,000	CM
	MacDill AFB TOTAL:	10,000	10,000	
Tyndall AFB				
	F-22 Fuels System Maintenance Hangar	3,050	3,050	NM
	F-22 Squad Ops/AMU and Hangar	12,000	12,000	NM
	Tyndall AFB TOTAL:	15,050	15,050	
	FLORIDA TOTAL:	54,650	54,650	
GEORGIA				
Robins AFB				
	Fire Training Facility	3,800	3,800	ENV
	Large Item Aircraft Spt Equip Paint Fac	3,050	3,050	CM
	Replace KC-135 Squad Ops	7,800	7,800	CM
	Robins AFB TOTAL:	14,650	14,650	
	GEORGIA TOTAL:	14,650	14,650	
IDAHO				
Mountain Home AFB				
	Replace Aircraft Parking Apron	14,600	14,600	CM
	Mountain Home AFB TOTAL:	14,600	14,600	
	IDAHO TOTAL:	14,600	14,600	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)

INSIDE THE U.S.

STATE/COUNTRY / INSTALLATION	PROJECT TITLE	APPROP REQUEST	AUTH FOR APPROP	TYPE
MARYLAND				
Andrews AFB				
	Consolidate Squadron Operations Facility	**10,070**	**10,070**	CM
	Repair East Runway	**7,600**	**7,600**	CM
	Upgrade Fire Training Facility	**1,750**	**1,750**	ENV
	Andrews AFB TOTAL:	**19,420**	**19,420**	
	MARYLAND TOTAL:	**19,420**	**19,420**	
MASSACHUSETTS				
Hanscom AFB				
	Renovate Acquisition Management Facility, Phase III	**9,400**	**9,400**	CM
	Hanscom AFB TOTAL:	**9,400**	**9,400**	
	MASSACHUSETTS TOTAL:	**9,400**	**9,400**	
MISSISSIPPI				
Keesler AFB				
	Replace Tech Training Fac Ph 2A	**28,600**	**28,600**	CM
	Keesler AFB TOTAL:	**28,600**	**28,600**	
	MISSISSIPPI TOTAL:	**28,600**	**28,600**	
NEVADA				
Nellis AFB				
	AFC2TIG Dynamic Battle Control Center	**12,600**	**12,600**	NM
	Nellis AFB TOTAL:	**12,600**	**12,600**	
	NEVADA TOTAL:	**12,600**	**12,600**	
NEW JERSEY				
McGuire AFB				
	C-17 **ADAL** Fuel Cell	**1,050**	**1,050**	NM
	C-17 Communications Support	**1,400**	**1,400**	NM
	C-17 Flight Simulator Facility	**4,900**	**4,900**	NM
	C-17 Maintenance Hangar	**27,700**	**27,700**	NM
	C-17 Three Bay Hangar	**1,500**	**1,500**	NM
	McGuire AFB TOTAL:	**36,550**	**36,550**	
	NEW JERSEY TOTAL:	**36,550**	**36,550**	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002
CURRENT MISSION. NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)

INSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT TITLE	APPROP REQUEST	AUTH FOR APPROP	TYPE
NEW MEXICO				
Cannon AFB				
	Replace Fire/Crash Rescue Station	9,400	9,400	CM
	Cannon AFB TOTAL:	9,400	9,400	
Kirtland AFB				
	Telescope/Atmosphere Compensation Laboratory	15,500	15,500	NM
	Kirtland AFB TOTAL:	15,500	15,500	
	NEW MEXICO TOTAL:	24,900	24,900	
NORTH CAROLINA				
Pope AFB				
	Consolidate C-130 Corrosion Control Facility	17,800	17,800	CM
	Pope AFB TOTAL:	17,800	17,800	
	NORTH CAROLINA TOTAL:	17,800	17,800	
NORTH DAKOTA				
Grand Forks AFB				
	KC-1 35 Sq Ops/AMU	7,800	7,800	CM
	Grand Forks AFB TOTAL:	7,800	7,800	
	NORTH DAKOTA TOTAL:	7,800	7,800	
OHIO				
Wright-Patterson AFB				
	ADAL Special Operations Intelligence Facility	3,450	3,450	NM
	Consolidate Acquisition Management Complex, Ph 4B	21,400	21,400	CM
	Wright-Patterson AFB TOTAL:	24,850	24,850	
	OHIO TOTAL:	24,850	24,850	
OKLAHOMA				
Altus AFB				
	Repair Airfield Pavements, Ph 1	20,200	20,200	CM
	Altus AFB TOTAL:	20,200	20,200	
Tinker AFB				
	Dormitory	10,200	10,200	CMD
	Tinker AFB TOTAL:	10,200	10,200	
	OKLAHOMA TOTAL:	30,400	30,400	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)

INSIDE THE U.S.

STATE/COUNTRY / INSTALLATION	PROJECT TITLE	APPROP REQUEST	AUTH FOR APPROP	TYPE
TENNESSEE				
Arnold AFB				
	Convert To Hypersonic Plant	10,400	10,400	NM
	Upgrade Jet Engine Air Induction System, Phase 4	14,000	14,000	CM
	Arnold AFB TOTAL:	24,400	24,400	
	TENNESSEE TOTAL:	24,400	24,400	
TEXAS				
Lackland AFB				
	Consolidate Joint Advanced Language Training Center	4,200	4,200	CM
	Dormitory	8,600	8,600	CMD
	Lackland AFB TOTAL:	12,800	12,800	
Laughlin AFB				
	Add/Alter Fitness Center	12,000	12,000	CMQ
	Laughlin AFB TOTAL:	12,000	12,000	
Sheppard AFB				
	Replace Student Dormitory/Dining Fac (140 RM)	16,000	16,000	CMD
	Student Dormitory/Dining Facility (160 RM)	21,000	21,000	CMD
	Sheppard AFB TOTAL:	37,000	37,000	
	TEXAS TOTAL:	61,800	61,800	
UTAH				
Hill AFB				
	Consolidate Hydraulic/Pneudraulic Repair Facility	14,000	14,000	CM
	Hill AFB TOTAL:	14,000	14,000	
	UTAH TOTAL:	14,000	14,000	
VIRGINIA				
Langley AFB				
	Dormitory	8,300	8,300	CMD
	F-22 Low Observ. Restoration 8 Comp Rpr Fac	16,000	16,000	NM
	F-22 Operations and Maintenance Facility	19,000	19,000	NM
	F-22 Upgrade Flightline Infrastructure	4,000	4,000	NM
	Langley AFB TOTAL:	47,300	47,300	
	VIRGINIA TOTAL:	47,300	47,300	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)

INSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT TITLE	APPROP REQUEST	AUTH FOR APPROP	TYPE
WASHINGTON				
Fairchild AFB				
	Replace Munitions Maint Admin Facility	**2,800**	**2,800**	**CM**
	Fairchild AFB TOTAL:	**2,800**	**2,800**	
McChord AFB				
	Add/Alter Mission Support Center, Ph 1	**15,800**	**15,800**	**CM**
	C-17 Extend Nose Docks	**4,900**	**4,900**	**NM**
	McChord AFB TOTAL:	**20,700**	**20,700**	
	WASHINGTON TOTAL:	**23,500**	**23,500**	
WYOMING				
F. E. Warren AFB				
	Fitness Center	**10,200**	**10,200**	**CMQ**
	F. E. Warren AFB TOTAL:	**10,200**	**10,200**	
	WYOMING TOTAL:	**10,200**	**10,200**	
Classified Location				
	Tactical Unit Detachment Facility	**4,458**	**4,458**	**NM**
	Classified Location TOTAL:	**4,458**	**4,458**	
	INSIDE THE U.S. TOTAL:	**709,478**	**709,478**	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)

OUTSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT TITLE	APPROP REQUEST	AUTH FOR APPROP	TYPE
GERMANY				
Ramstein AB				
	Consolidate 1st Combat Communications Squadron Complex Ph I	15,000	15,000	CM
	Dormitory	11,000	11,000	CMD
	Freight Terminal & Defense Courier Service	9,400	9,400	NM
	Strategic Lift Area Expansion	4,600	4,600	NM
	Upgrade Utility Infrastructure	2,900	2,900	NM
	Ramstein AB TOTAL:	42,900	42,900	
Spangdahlem AB				
	NW Infrastructure Expansion	6,200	6,200	NM
	Refueler Vehicle Maintenance	2,500	2,500	CM
	Spangdahlem AB TOTAL:	8,700	8,700	
	GERMANY TOTAL:	51,600	51,600	
GREENLAND				
Thule AB				
	Replace Taxiways/Aprons	19,000	19,000	CM
	Thule AB TOTAL:	19,000	19,000	
	GREENLAND TOTAL:	19,000	19,000	
GUAM				
Andersen AFB				
	AEF Bomber FOL War Reserve Material Facility	4,550	4,550	NM
	Replace Security Forces Operations	5,600	5,600	CM
	Andersen AFB TOTAL:	10,150	10,150	
	GUAM TOTAL:	10,150	10,150	
ITALY				
Aviano AB				
	Dormitory	8,200	8,200	CMQ
	Indoor Firing Range	3,600	3,600	CM
	Aviano AB TOTAL:	11,800	11,800	
	ITALY TOTAL:	11,800	11,800	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)

OUTSIDE THE U.S.

STATE/COUNTRY INSTALLATION	PROJECT TITLE	APPROP REQUEST	AUTH FOR APPROP	TYPE
KOREA				
Kunsan AB				
	Add/Alter Fitness Center	12,000	12,000	CMQ
	Kunsan AB TOTAL:	12,000	12,000	
Osan AB				
	Dormitory	14,400	14,400	CMQ
	Dormitory (156 RM)	15,800	15,800	CMD
	Officer Dormitory	9,700	9,700	CM
	Replace Base Civil Engineer Complex	36,000	36,000	CM
	Replace Traffic Management Facility	5,925	5,925	CM
	Replace Vehicle Ops Control/Admin Fac	2,000	2,000	CM
	Vehicle Maintenance Facility	17,317	17,317	CM
	Osan AB TOTAL:	101,142	101,142	
	KOREA TOTAL:	113,142	113,142	
TURKEY				
Eskisehir				
	Dormitory/Mission Support Facility (32 RM)	4,000	4,000	CMD
	Eskisehir TOTAL:	4,000	4,000	
	TURKEY TOTAL:	4,000	4,000	
UNITED KINGDOM				
Lakenheath RAF				
	Replace Supply Material Control	11,300	11,300	CM
	Lakenheath RAF TOTAL:	11,300	11,300	
Mildenhall RAF				
	Avionics/Maintenance Complex Phase II	10,800	10,800	CM
	Fitness Center	11,600	11,600	CMQ
	Mildenhall RAF TOTAL:	22,400	22,400	
	UNITED KINGDOM TOTAL:	33,700	33,700	
WAKE ISLAND				
Wake Island				
	Repair Airfield Pavement, Ph 1	25,000	25,000	CM
	Wake Island TOTAL:	25,000	25,000	
	OUTSIDE THE U.S. TOTAL:	268,392	268,392	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2002
CURRENT MISSION, NEW MISSION AND WORLDWIDE
(DOLLARS IN THOUSANDS)

WORLDWIDE

STATE/COUNTRY INSTALLATION	PROJECT TITLE	APPROP REQUEST	AUTH FOR APPROP	TYPE
VARIOUS LOCATIONS				
	Planning & Design	**79,130**	**79,130**	**PLN**
	Unspecified Minor Construction	**11,250**	**11,250**	**P341**
	TOTAL:	**90,380**	**90,380**	
	VARIOUS LOCATIONS TOTAL:	**90,380**	**90,380**	
	WORLDWIDE TOTAL:	**90,380**	**90,380**	
	FY 2002 TOTAL:	**1,068,250**	**1,068,250**	

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Installation Index

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MILITARY CONSTRUCTION PROGRAM
FY 2002 PRESIDENT'S BUDGET
INSTALLATION INDEX

MILITARY CONSTRUCTION PROGRAM
FY 2002 PRESIDENT'S BUDGET
INSTALLATION INDEX

Special Program Considerations

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FISCAL YEAR 2002

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. Life cycle economic analyses or justifications why an economic analysis was not warranted will be submitted directly to the OSD staff at their request.

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 2002 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 02 MILCON request includes $10.1 million for requirements necessary to correct current environmental noncompliance situations and to prevent future noncompliance. The environmental compliance target areas for this program include live fire training facilities and a wastewater system.

FY 2002

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 13 identifies each project as new or current mission. 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

The FY 1991 Senate Armed Services Committee Report, 101-384, 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 02 Military Construction program was compared to the current real estate asset inventory published by the Resolution Trust Corporation. It was determined, and the Department certified, that no assets exist that can be economically used in lieu of the FY 02 projects requested.

5. REAL PROPERTY MAINTENANCE

The FY 1997 House Appropriations Committee Report, 104-591, page 11, requested the Department to provide the real property maintenance backlog at all installations for which there is a requested construction project. Each DD Form 1390 reflects this information in block 12. In addition, the report requested all troop housing requests to show all real property maintenance conducted in the past two years and all future requirements for unaccompanied housing at that installation. Each DD Form 1391 for troop housing reflects this information in block 11.

6. METRIC CONVERSION

The FY 1999 House Appropriation Committee Report, 105-578, page 11, requested the Department to ensure that any Form 1390/1391, which is presented as justification in metric measurement, shall include parenthetically the English measurement. Each DD Form 1391 reflects the metric and English equivalent in block 11.

FY 2002

NON-MILCON FUNDING

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

FY 2002

THIRD PARTY FINANCING

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

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Appropriation Language

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APPROPRIATIONS LANGUAGE

MILITARY CONSTRUCTION, AIR FORCE

For acquisition, construction, installation, and equipment of temporary or permanent public works, military installations, facilities, and real property of the Air Force as currently authorized by law $1,068,250 to remain available until September 30, 2005: Provided that, of this amount, not to exceed $79,130,000 shall be available for study, planning, design, architect and engineer services, as authorized by law, unless the Secretary of Defense determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of his determination and the reasons therefore.

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Inside the United States Construction Projects

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1. COMPONENT AIR FORCE	FY2002 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA	4. COMMAND AIR EDUCATION AND TRAINING COMMAND	5. AREA CONST COST INDEX 0.86

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	959	1,089	2,122	600	1		1,092	46	112	6,021
b. End FY 2005	965	1,109	2,131	723	1		1,092	46	112	6,179

7. INVENTORY DATA $(000)

a. Total Acreage	3,497	
b. Inventory Totals as of: 30 Sep 00		323.920
c. Authorization Not Yet In Inventory:		42,908
d. Authorization Requested In this Program:		**34,400**
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		11,212
a. Remainina Deficiency:		255,701
h. Grand Total:		668,141

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(000)	DESIGN START	STATUS CMP
171-851	ADAL SOS Academic Facility	**7,870**	SM	$9,000	MAY 00	SEP 01
724-417	Squadron Officer School Dormitory	162	RM	$13,600	MAR 00	SEP 01
724-433	Replace OTS Dormitory (120 RM)	120	RM	$11,800	JUN 01	Apr 02
			Total	$34,400		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

171-356	ADAL Air University Library	**2,700**	SM	$11,212	

9c. Real Property Maintenance Backlog This Installation 52

10. Mission or Major Functions: Home to Headquarters Air University including Air War College, Air Command and Staff College, Squadron Officer School, College of Aerospace Doctrine Research and Education, Ira C. Eaker College for Professional Development, Air Force Officer Accession and Training School, and Community College of the Air Force; Headquarters Civil Air Patrol; Headquarters Air Force ROTC; an air base wing; an AMC airlift flight, and an Air Force Reserve airlift wing.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	25
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MAXWELL AIR FORCE BASE, ALABAMA	ADAL SOS ACADEMIC FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	171-851	PNQS033136A	9,000

9. COST ESTIMATES

ITEM	JIM	QUANTITY	UNIT COST	COST ($000)
ADAL SQUADRON OFFICERS COLLEGE	LS			6,55(
ADDITION	SM	5,490	1,078	(5,91(
ALTERATION	LS			(58:
ANTITERRORISM/FORCE PROTECTION	SM	5,490	10	(5(
SUPPORTING FACILITIES				1,59(
UTILITIES	LS			(49(
PAVEMENTS	LS			(45(
SITE IMPROVEMENTS	LS			(35(
DEMOLITION	SM	2,300	130	(29(
SUBTOTAL				8,15(
CONTINGENCY (5.0%)				40E
TOTAL CONTRACT COST				8,56(
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				48E
TOTAL REQUEST				9,05(
TOTAL REQUEST (ROUNDED)				9,00(

10. Description of Proposed Construction: A two-story addition with reinforced concrete foundation and floor slat structural steel frame, masonry walls, sloped roof, fire protection system, utilities, and all necessary support. Includes seminar rooms, command and academic offices, lounge/waiting areas. Alteration includes upgrade of existing mechanical/electrical systems. Demolishes one facility (2,300 SM).

Air Conditioning: 400 KW

11. REQUIREMENT: 15,522 SM ADEQUATE: 1,340 SM SUBSTANDARD: 4,680 SM

PROJECT: Add/alter Squadron Officer College Academic Facility. (Current Mission)

REQUIREMENT: This project will provide an additon to the existing Squadron Officer School (SOS) Academic Facility to stand up the new Squadron Officer College (SOC). The facility addition is required to realign the SOC command section and create additonal seminar officer training classrooms in accordance with the SOS and new Aerospace Basic Course (ABC) curricula. ABC is the initial course in officer Professional Military Education (PME) that initiates new officers and civilian employees to the Air Force. SOS is the second PME course that develops officership and leadership techniques.

CURRENT SITUATION: The existing SOS academic facility is now under renovation (O&M project) to upgrade existing seminar rooms which will accomodate six SOS training squadrons. A total of ten ABC and SOS squadrons are needed to meet new Air Force officer PME requirements in FY2002. Sufficient adequate facilities are not available at Maxwell AFB for ABC and SOS to educate the number of officers required to attend PME. The renovated SOS academic facility will not provide enough seminar rooms or a command section area to meet Squadron Officer College space requirements.

IMPACT IF NOT PROVIDED: SOS and ABC will not have sufficient academic space to educate the required number of officers for the Air Force officer PME mission. Already, SOS is not able to meet its officer requirement due to limited classroom space. Without this addition, the officer PME backlog will only get worse as SOS and ABC production requirements increase.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MAXWELL AIR FORCE BASE, ALABAMA	ADAL SOS ACADEMIC FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	171-851	PNQS033136A	9,000

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-l 084, "Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project indicates that there is only one option of new construction and alteration that will satisfy operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Base Civil Engineer: LtCol Wilfred Cassidy, (334) 953-6945. Addition: 5,490 SM= 59,072 SF.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

1. PROJECT TITLE	5. PROJECT NUMBER
DAL SOS ACADEMIC FACILITY	PNQS033136A

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-MAY-00
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	15 %
• (d) Date 35% Designed.	15-SEP-00
(e) Date Design Complete	10-SEP-01
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	**NO**
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	540
(b) All Other Design Costs	270
(c) Total	810
(d) Contract	720
(e) In-house	90
(4) Construction Contract Award Date	01 Nov
(5) Construction Start	02 Jan
(6) Construction Completion	03 Jul

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MAXWELL AIR FORCE BASE, ALABAMA	REPLACE OTS DORMITORY (120 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	724-433	PNQS023133	11,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY	LS			8,524
OTS DORMITORY	SM	6,130	1,354	(8,300;
ANTITERRORISM / FORCE PROTECTION	LS			(2241
SUPPORTING FACILITIES				2,159
UTILITIES	LS			(760)
PAVEMENTS	LS			(525)
SITE IMPROVEMENTS	LS			(519)
SPECIAL FOUNDATION	LS			(355)
SUBTOTAL				10,683
CONTINGENCY (5.0%)				534
TOTAL CONTRACT COST				11,217
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				639
TOTAL REQUEST				11,857
TOTAL REQUEST (ROUNDED)				11,800

10. Description of Proposed Construction: Four-story dormitory with reinforced concrete foundation and floor slabs, structural steel frame, and architecturally compatible roof. Includes room-bath modules, laundry, storage, study areas, luggage room, Change of Quarters (CQ) area, covered entry, assembly pad, campus improvements, landscaping, roadwork, and all necessary support.

Air Conditioning: 360 KW

11. REQUIREMENT: 120 RM ADEQUATE: RM SUBSTANDARD: 120 RM

PROJECT: Construct Officer Training School (OTS) dormitory (Current Mission)

REQUIREMENT: Supports AU21 Plan. This dormitory will be a part of the Officer Training School (OTS) campus required to maintain the necessary environment for training future Air Force officers. Adequate living quarters are required to accommodate an average student load of 240.

CURRENT SITUATION: OTS relocated to Maxwell AFB in the 4th quarter of 1993. OTS provides basic officer training (BOT) and commissioned officer training (COT). BOT is for candidate officer students commissioned upon graduation. COT is for officers commissioned without basic training, ususally in the medical and legal professions. OTS is programmed to grow from 1,962 students per year in FY98 to 3,427 students per year in FY2002 for COT and BOT combined. COT students were housed at Gunter, but that space is required to support a new enlisted PME requirement. Increases in BOT production requirements has resulted in a critical shortage in lodging space. A controlled environment is necessary for training these cadets to limit inappropriate external influences that undermine the training. OTS students may now commingle with other student and support personnel, and as a result, the controlled environment desired is compromised.

IMPACT IF NOT PROVIDED: With increased student load, OTS will lose the ability to maintain a proper training environment to indoctrinate officer candidates into the Air Force way of life. Other schools, like SOS, must continue to be scaled back or contract quarters use increased for other students to reside off-base.

ADDITIONAL: This project meets Air University's criteria/scope requirements for OTS cadets. All known

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MAXWELL AIR FORCE BASE, ALABAMA	REPLACE OTS DORMITORY (120 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	724-433	PNQS023133	11,800

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. Base Civil Engineer: Lt Col Wilfred T. Cassidy (334) 953-6945. OTS Dormitory: 6,130 SM = 65,959 SF.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE REPLACE OTS DORMITORY (120 RM)		5. PROJECT NUMBER PNQS023133

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	25-JUN-01
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of Jan 01	1 %
• (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	YES
(b) Where Design Was Most Recently Used -	Maxwell AFB
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	590
(b) All Other Design Costs	118
(c) Total	**708**
(d) Contract	649
(e) In-house	59
(4) Construction Contract Award Date	**02** Aug
(5) Construction Start	**02** Sep
(6) Construction Completion	**04** Aug

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MAXWELL AIR FORCE BASE, ALABAMA	SQUADRON OFFICER SCHOOL DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	724-4 17	PNQS973106	13,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SOC DORMITORY PHII	SM	8,450	1,199	10,131
DORMITORY (162 RM)	SM	7,700	1,174	(9,040'
BILLETING OFFICE	SM	750	1,320	(990)
ANTITERRORISM/FORCE PROTECTION	SM	8.450	12	(101)
SUPPORTING FACILITIES				2,100
UTILITIES	LS			(850)
SITE IMPROVEMENTS	LS			(400)
PAVEMENTS	LS			(650)
FIRE SUPPRESSION PUMP	LS			(200)
SUBTOTAL				12,231
CONTINGENCY (5.0%)				612
TOTAL CONTRACT COST				12,843
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				732
TOTAL REQUEST				13,575
TOTAL REQUEST (ROUNDED)				13,600

10. Description of Proposed Construction: Five-story with reinforced concrete foundation and floor slabs, structural steel frame, masonry walls, and sloped roof. Includes room-bath modules, laundries, storage and lounge areas, site improvements, pavement, and all necessary support. Includes DoD minimum interim standard force protection measures.

Air Conditioning: 220 KW

11. REQUIREMENT: 9,210 SM ADEQUATE: 760 SM SUBSTANDARD: 270 SM

PROJECT: Squadron Officer College (SOC) dormitory. (Current Mission)

REQUIREMENT: Adequate living quarters to accommodate approximately 702 students (company grade officers and civilians), in each of seven 5-week and eight 4-week courses offered annually at the Squadron Officer College (SOC). Properly designed quarters which provide appropriate degree of individual privacy are essential for successful training. SOC dorm complex will provide student interaction space, both social and recreational. The billeting area is required to provide a centrally located facility to accomodate all transient and TDY personnel on Maxwell. Antiterrorism/force protection measures to comply with the DoD interim minimum force protection standard.

CURRENT SITUATION: The existing dormitories, constructed in 1956, have had only limited minor upgrades over the years. Rooms are not of sufficient size and do not have private baths. Major deficiencies include inadequate lighting, poor sound attenuation, deteriorated windows, and unreliable electrical and mechanical systems. The electrical system relies on fuses which are no longer manufactured and do not meet the national electric code. Rooms cannot be heated or cooled equally creating very uncomfortable environments for study. The billeting office is not centrally located and occupies converted officer quarters.

IMPACT IF NOT PROVIDED: The dormitories will remain functionally substandard. Rooms will be unsuitable for study with improper cooling and heating. This will adversely affect the overall education mission and lower morale of young officers.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MAXWELL AIR FORCE BASE, ALABAMA	SQUADRON OFFICER SCHOOL DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	724-417	PNQS973106	13,600

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements." An economic analysis has been prepared comparing alternatives of new construction, revitalization, leasing and status quo operation. 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. Base Civil Engineer: Lt Col Wilfred Cassidy: (334) 953-6945. Dormitory: 7,700 SM = 82,852 SF, Billeting Office: 750 SM = 8,070 SF.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE SQUADRON OFFICER SCHOOL DORMITORY		5. PROJECT NUMBER PNQS973106

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	21-MAR-00
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	**15%**
• (d) Date 35% Designed.	15-SEP-00
(e) Date Design Complete	20-SEP-01
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	YES
(b) Where Design Was Most Recently Used -	MAXWELL
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	816
(b) All Other Design Costs	**408**
(c) Total	1,224
(d) Contract	1,020
(e) In-house	**204**
(4) Construction Contract Award Date	01 Nov
(5) Construction Start	02 Jan
(6) Construction Completion	03 Jun

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
EARECKSON AIR STATION, ALASKA	PACIFIC AIR FORCES	1.61

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00			7							7
b. End FY 2005			7							7

7. INVENTORY DATA $1000)

a. Total Acreage	3,520	
b. Inventory Totals as of: 30 Sep 00		360.050
c. Authorization Not Yet In Inventorv:		0
d. Authorization Requested In this Program:		4,600
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		29,000
a. Remainina Deficiencv:		73,000
h. Grand Total:		466,650

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN START	STATUS CMP
832-266	Upgrade Wastewater System	1 LS	$4,600	Jun 01	Apr 02
		Total	$4,600		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

81 l-145	Upgrade Electric Power Generation Plant	1 LS	$29,000

9c. Real Property Maintenance Backlog This Installation 2

10. Mission or Major Functions: A contractor operated Pacific Air Forces support site for COBRA DANE radar; and a support airfield for enroute and emeraencv divert aircraft.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EARECKSON AIR STATION, ALASKA	UPGRADE WASTEWATER SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27456	832-266	VNMH037001	4,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE WASTEWATER SYSTEM	LS			2,850
SANITARY SEWER MAINS 8-10 IN	LM	556	336	(187)
SANITARY SEWER MAINS 6 IN	LM	3,732	420	(1,567)
SANITARY SEWER MAINS 6 IN FORCE MAIN	LM	304	234	(71)
SANITARY SEWER MANHOLES	EA	34	20,912	(711)
SEPTIC TANK/LAGOON REPAIR & DISPOSAL	LS			(179)
LIFT STATION	EA	1	135,000	(135)
SUPPORTING FACILITIES				1,250
MOBILIZATION/DEMOBILIZATION	LS			(950)
CONTAMINATED SOIL REMEDIATION	LS			(300)
SUBTOTAL				4,100
CONTINGENCY (5.0%)				205
TOTAL CONTRACT COST				4,305
SUPERVISION, INSPECTION & OVERHEAD (6.5 %)				280
TOTAL REQUEST				4,585
TOTAL REQUEST (ROUNDED)				4.600

10. Description of Proposed Construction: Replace 4,288 LM of sewage lines and 34 manholes. Install a septic tank, leach field, 304 LM of force main, and sewage lift station. Purge lines and abandon in-place as required. Upgrade sewage lagoon as required and contaminated soil remediation.

11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS

PROJECT: Upgrade wastewater system. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. A sanitary sewage collection system s required to be in compliance with 40CFR35-2120, Infiltration/Inflow.

CURRENT SITUATION: The existing system has numerous large sections of wood-stave pipe and asbestos-cement pipe which are unrepairable. An extensive TV inspection found smashed pipes, longitudinal and circumferential cracking, holes, roots protruding into the pipes, many service connections that required repairs, snd damaged joints that are offset and pulled apart. Manholes have cracked walls and tops, joints and service connections are not sealed, aprons require replacement and flow channels are missing or in need of repair. These conditions allow excessive inflow and infiltration into the system. From January 1997 through July 1998, :he system exceeded permitted flow limit 22 times. Negotiations with the Alaska Department of Environmental Conservation resulted in an October 1998 modified permit: Wastewater Disposal Permit Number 9825-DB001. This permit allows a 10% increase of flow as a temporary measure. The permit requires the infiltration/inflow problem to be corrected in the near future.

MPACT IF NOT PROVIDED: The sanitary sewer system will continue to deteriorate and allow increased excessive inflow and infiltration into the system. The sewage lagoon will continue to exceed permitted discharge quantities and subject the Air Force to possible disciplinary actions from regulatory authorities.

ADDITIONAL: The conditions requiring upgrade are governed by: (a) 40CFR122-41 Conditions applicable to

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EARECKSON AIR STATION, ALASKA	UPGRADE WASTEWATER SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27456	832-266	VNMH037001	4,600

all permits, (b) Duty to mitigate (c) Proper operation and maintenance; (d) 40CFR35-2120: Infiltration/Inflow (e) Alaska Department of Conservation: Wastewater Disposal Permit Number 9825-DB001. 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. Base Civil Engineer: Lt Col Lillemon, 907-552-2217. Replace Sewer Mains: Sewer Mains: 4,288 LM = 14,068 LF; Force Main: 304 LM = 997 LF. Design-build design cost (4% of subtotal) $164,000.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION

EARECKSON AIR STATION, ALASKA

4. PROJECT TITLE	5. PROJECT NUMBER
UPGRADE WASTEWATER SYSTEM	VNMH037001

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	25-Jun-01
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	1 %
• (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	NO
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	276
(b) All Other Design Costs	138
(c) Total	414
(d) Contract	345
(e) In-house	69
(4) Construction Contract Award Date	01 Dec
(5) Construction Start	02 Mar
(6) Construction Completion	03 Mar

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ELMENDORF AIR FORCE BASE, ALASKA	4. COMMAND PACIFIC AIR FORCES		5. AREA CONST COST INDEX 1.61

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNL	CIV	OFF	FNI	CIV	OFF	FNI	CIV	
a. As of 30 Sep 00	825	6,194	1,643				157	405	2,123	11,347
b. End FY 2005	834	6,222	1,631				157	405	2,123	11,372

7. INVENTORY DATA $(000)

a. Total Acreage 13,123	
b. Inventory Totals as of: 30 Sep 00	867.543
c. Authorization Not Yet In Inventory:	55,337
d. Authorization Requested In this Program:	32,200
e. Authorization Included In Following Program: (FY2003)	11,000
f. Planned in Next Four Program Years:	36.816
a. Remainina Deficiencv:	377,000
h. Grand Total:	1,379,896

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(000)	DESIGN START	STATUS CMP
211-179	Add/Alter Aircraft Fuel System Maintenance Hangar	4,133	SM	$12,200	Jun 01	Apr 02
721-312	Dormitory	180	RM	$20,000	TURN KEY	
			Total	$32,200		

9a. Future Projects: Included in the Following Program: (FY2003)

740-674	Add/Alter Fitness Center	4,450	SM	$11,000
			Total	$11,000

9b. Future Projects: Typically Planned Next Four Years

217-712	Convert Facility To Avionics Shop	5,000	SM	$6,000
721-312	Dormitory	180	RM	$22,476
890-185	Repair Arctic Utilities Dist Sys, Ph 1 of 10	1	LS	$8,340

9c. Real Prooertv Maintenance Backlog This Installation 80

10. Mission or Major Functions: A host wing supporting three fighter squadrons including two F-I 5C/D squadrons, one F-I 5E squadron, one E-3 air control squadron and an airlift squadron with C-I 30H and C-I 2 aircraft; Headauarters Eleventh Air Force: Alaska Command and Alaska NORAD Reaion Headauarters.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	n

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	ADD/ALTER AIRCRAFT FUEL SYSTEM MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
22176	211-179	FXSB991055	12.200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER FUEL SYSTEM MAINTENANCE HANG	LS			8,460
ADDN TO AIRCRAFT MAINTENANCE HANGAR	SM	1,152	2,660	(3,064
ALTERATION OF AIRCRAFT MAINT HANGAR	SM	2,981	1,810	(5,396
SUPPORTING FACILITIES				2,400
ADDN TO TAXIWAY PAVEMENT-HANGAR ADDN	LS			(1,100
CONTAMINATED SOIL REMEDIATION	LS			(900
ASBESTOS REMOVAL	LS			(200
UTILITIES	LS			(200
SUBTOTAL				10,860
CONTINGENCY (5.0%)				543
TOTAL CONTRACT COST				11,403
SUPERVISION, INSPECTION & OVERHEAD (6.5 %)				741
TOTAL REQUEST				12,144
TOTAL REQUEST (ROUNDED)				12,200

10. Description of Proposed Construction: Two-bay fighter addition to fuel system hangar. Replace hangar roof, exterior siding, doors, electric wiring, lighting, ventilation and heating system. Repair floor and upgrade fire detection/suppression and extend taxiway pavement to hangar addition. All necessary supporting facilities/utilities and contaminated soil remediation.

11. REQUIREMENT: 4,133 SM ADEQUATE: SM SUBSTANDARD: 2,981 SM

PROJECT: Add to and alter an aircraft fuel system maintenance hangar. (Current Mission)

REQUIREMENT: An adequate facility, properly sized and configured, to provide protected, explosion proof space for aircraft fuel system maintenance on assigned Wing C-l 30 and F-l 5 aircraft. Adequate size and explosion proof hangar space will be provided by a two-bay addition for fighters and upgrade of the existing aged hangar which does not meet code.

CURRENT SITUATION: The existing hangar was originally constructed in 1957 as a B-29 nose dock and was converted to a fuel systems maintenance hangar in 1987 with few upgrades. The hangar is too small to support the current increased C-130 and F-15 aircraft mission. The main hangar doors require constant maintenance to remain minimally operational and the aperture doors, which surround the tail of the C-130 when inside the hangar, are not usable. The hangar roof, exterior siding and internal utilities, including heating system, need to be replaced. Current hangar is only capable of supporting either two C-130s or one C-130 and two fighters. With the arrival of seven C-130s reassigned from Yokota, a SATAF evaluation identified the requirement for two additional bNays. This problem will worsen as ten additional F-l 5 aircraft arrive. Existing facility is being used 24 hours per day, 7 days per week and there is still a shortfall with, on a daily average, one C-130 and one F-l 5/C/D/E are grounded/unserviceable and awaiting entrance to the fuel system maintenance hangar.

IMPACT IF NOT PROVIDED: Critical mission readiness capabilities of the wing assigned aircraft (F-15s and C-130s) will continue to be degraded. Maintenance personnel and mission aircraft will continue to be placed at the risk of loss due to fire.

ADDITIONAL:

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	ADD/ALTER AIRCRAFT FUEL SYSTEM MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
22176	211-179	FXSB991055	12,200

This project meets the criteria/scope specified in Air Force Handbook 32-l 084, “Facility Requirements.” A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs. Therefore, a complete economic analysis was not performed. A certificate of exception has been prepared. BASE CIVIL ENGINEER: Col Showers, 907-552-4833. Alter Hangar: 2,981 SM = 32,076SM; Addition to Hangar: 1,152SM = 12,396SF

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ELMENDORF AIR FORCE BASE, ALASKA		
4. PROJECT TITLE ADD/ALTER AIRCRAFT FUEL SYSTEM MAINTENANCE HANGAR		5. PROJECT NUMBER FXSB991055

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	25-Jun-01
(b) Parametric Cost Estimates used to develop costs	YES
. (c) Percent Complete as of Jan 01	1 %
. (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	**732**
(b) All Other Design Costs	**366**
(c) Total	1,098
(d) Contract	915
(e) In-house	183
(4) Construction Contract Award Date	**02** Aug
(5) Construction Start	**02** Sep
(6) Construction Completion	**04** Aug

. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27596	721-312	FXSB033004	20,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (180 RM)	LS			15,095
DORMITORY	SM	6,300	2,372	(14,944
ANTITERRORISM FORCE PROTECTION	SM	6,300	24	(151
SUPPORTING FACILITIES				2,850
UTILITIES	LS			(1,200
PAVEMENTS	LS			(950
SITE IMPROVEMENTS	LS			(400
COMTAMINATED SOIL REMEDIATION	LS			(300
SUBTOTAL				17,945
CONTINGENCY (5.0%)				897
TOTAL CONTRACT COST				18,842
SUPERVISION, INSPECTION & OVERHEAD (6.5 %)				1,225
TOTAL REQUEST				20,067
TOTAL REQUEST (ROUNDED)				20,000

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls and roof. Includes room-bath-room modules, laundries, storage and lounge areas and all supporting facilities. Antiterrorism/force protection measures are based on a joint staff-directed installation vulnerability assessment.

11. REQUIREMENT: 1,455 RM ADEQUATE: 938 RM SUBSTANDARD: RM

PROJECT: Construct dormitory (Current Mission).

REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed 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. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. Antiterrorism/force protection measures are based on a joint staff-directed installation vulnerability assessment.

CURRENT SITUATION: The base has insufficient on-base housing to accommodate the unaccompanied enlisted personnel. This project is in accordance with the Air Force Dormitory Master Plan.

IMPACT IF NOT PROVIDED: Adequate living quarters which provide a level of privacy required for today's airmen will not be available, 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 construction standard, known as "one plus one," established by OSD. All known alternatives were considered during the development of this project. No other option could meet mission requirements. Therefore, no economic analysis was needed or performed. FY99 Unacompanied Housing RPM conducted: $2,160K; FYOO Unaccompanied Housing RPM conducted: $2,995K; Future Unaccompanied Housing RPM requirements (estimated): FY01: $3,062K; FY02: $3,129K; FY03: $3,197K. Base Civil Engineer: Col Showers, (907) 552-3007. Dormitory: 6,300 SM = 67,800 SF. Design-build design cost (4% of subtotal) $753,680.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. D A T E
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	
ELMENDORF AIR FORCE BASE, ALASKA	
4. PROJECT TITLE	5. PROJECT NUMBER
DORMITORY	FXSB033004

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	800
(4) Construction Contract Award Date	01 Dec
(5) Construction Start	02 Mar
(6) Construction Completion	04 Nov
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	4. COMMAND AIR COMBAT COMMAND		5. AREA CONST COST INDEX 0.98

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	846	4,996	1,523				5	78	325	7,773
b. End FY 2005	848	5,115	1,521				5	78	325	7,892

7. INVENTORY DATA $(000)

a. Total Acreage	10,633	
b. Inventory Totals as of: 30 Sep 00		374.148
c. Authorization Not Yet In Inventory:		13,695
d. Authorization Requested In this Program:		17,300
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		31,205
a. Remainina Deficiencv:		86,100
h. Grand Total:		522,448

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(OOO)	DESIGN START	STATUS CMP
141-821	Replace Aircraft Reclamation/Parts Process Complex	4,200 SM	$8,600	TURN KEY	
721-312	Dormitory	120 RM	$8,700	Jun 01	Apr 02
		Total	$17,300		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

141-753	EC-130 Squadron Operations/AMU (43rd ECS)	3,984 SM	$8,758
610-281	Consolidated Mission Support Center	3,000 SM	$7,920
721-312	Dormitory	120 RM	$8,827
740-884	Child Development Center	2,645 SM	$5,700

9c. Real Property Maintenance Backlog This Installation 61

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, a tactical air control wing; an Air Force Reserve HH-60 rescue squadron; and Air Force Material Command's Aerospace Maintenance and Regeneration Center.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27596	721-312	FBNV013001	**8.700**

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (120 RM)	LS			6,359
DORMITORY	SM	3,960	1,597	(6,324)
ANTITERRORISM/FORCE PROTECTION	LS			(35)
SUPPORTING FACILITIES				**1,460**
UTILITIES	LS			(270)
PAVEMENTS	LS			(265)
SITE IMPROVEMENTS	LS			(735)
SPECIAL FOUNDATIONS	LS			(100)
ACCESS ROAD/SIDEWALK	LS			(50
PARKING LOT LIGHTING	SP	**200**	**200**	(40
SUBTOTAL				7,819
CONTINGENCY (5.0%)				391
TOTAL CONTRACT COST				8,210
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				**468**
TOTAL REQUEST				**8,678**
TOTAL REQUEST (ROUNDED)				**8,700**

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls and roofs. Includes room-bath/kitchen-room modules, laundry rooms, storage, lounge areas, site preparation, and all other supporting facilities. Includes DoD minimum interim standard force protection measures.

Air Conditioning: 300 KW Grade Mix: 120 El-E4.

11. REQUIREMENT: As required

PROJECT: Construct a dormitory. (Current Mission)

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. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. Antiterrorism/force protection measures to comply with the DoD interim minimum force protection standard.

CURRENT SITUATION: The base has insufficient on-base housing to accommodate the unaccompanied enlisted personnel. This project is in accordance with the Air Force Dormitory Master Plan.

IMPACT IF NOT PROVIDED: Adequate living quarters which provide a level of privacy required for today's airmen will not be available, 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 construction standard, known as "one-plus-one," established by OSD. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	DORMITORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27596	721-312	FBNV013001	8,700

analysis was needed or performed. FY99 Unaccompanied Housing RPM Conducted: $150K. Future Unaccompanied Housing RPM required (estimated): FYOO: $153K; FY01: $156K; FY02: $159K; FY03: $162K. Base Civil Engineer: Lt Col Marshall Lounsbeny, (602) 750-3401. Dormitory: 3,960 SM = 42,625 SF

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA **(computer generated)**	2. DATE

3. INSTALLATION AND LOCATION

DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

4. PROJECT TITLE	5. PROJECT NUMBEF
DORMITORY	FBNV013001

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	25-Jun-01
(b) Parametric Cost Estimates used to develop **costs**	YES
• (c) Percent Complete as of Jan 01	1 %
• (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	YES
(b) Where Design Was Most Recently Used -	DAVIS-MONTHAN AFB, AZ
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	**435**
(b) All Other Design Costs	**87**
(c) Total	**522**
(d) Contract	**479**
(e) in-house	**44**
(4) Construction Contract Award Date	01 Dec
(5) Construction Start	02 Mar
(6) Construction Completion	**03** Sep

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	REPLACE AIRCRAFT RECLAMATION/PARTS PROCESS COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	141-821	FBNV033501	8,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AIRCRAFT RECLAMATION/PARTS PROCESS CMPLX	SM	4,200	1,138	4,856
PARTS PROCESSING	SM	3,306	1,115	(3,686
ADMINISTRATIVE	SM	894	1,295	(1,158
ANTITERRORISM FORCE PROTECTION	SM	894	13	(12
SUPPORTING FACILITIES				2,915
UTILITIES/PAVEMENTS/SITE IMPROVEMENTS	LS			(1,140
COVERED OUTSIDE STORAGE	LS			(90
COMMUNICATIONS SUPPORT	LS			(200
ASBESTOS/LEAD PAINT ABATEMENT	LS			(550
DEMOLITION	SM	6,230	150	(935
SUBTOTAL				7,770
CONTINGENCY (5.0%)				389
TOTAL CONTRACT COST				8,159
SUPERVISION, INSPECTION &OVERHEAD (5.7 %)				465
TOTAL REQUEST				8,624
TOTAL REQUEST (ROUNDED)				8,600

10. Description of Proposed Construction: Concrete masonry block walls, concrete floor slab, steel beam and column frame with standing seam metal roof. All necessary fire protection, communications, utilities with underground electrical service, and covered storage. Demolish one facility (6,230 SM) and associated overhead electrical lines. Comply with DoD interim minimum force protection construction standard.

Air Conditioning: 71 KW

11. REQUIREMENT: As required

PROJECT: Replace aircraft reclamation/parts processing complex. (Current Mission)

REQUIREMENT: An adequate facility, properly sized and configured, is required for aircraft parts reclamation of various DoD aircraft. The parts will require cleaning, inspection, repair, packing and shipping. This facility will support the spare parts requirement for aircraft in active flying units, foreign military sales, and parts pulled for emergency replacement for combat aircraft. Extended covered storage is required for prestoring packaged fiberboard containers, aircraft parts and components. Comply with DoD interim minimum force protection construction standard.

CURRENT SITUATION: The existing aircraft parts reclamation process is performed in an oversized facility constructed in 1963 to support the parts reclamation requirement at the time. The building has been extensively modified with various additions and interior configurations to the extent that today there are unuseable spaces within the floor plan. The roof system is made of many different slopes and coverings, and it leaks despite several attempts to repair it. The flat built-up roof needs to be completely replaced. The interior electrical system is completely out-dated. Overloaded circuits often cause complete power outages in the facility.

IMPACT IF NOT PROVIDED: Aircraft and Parts Reclamation personnel will continue to work in a substandard, inefficient and deteriorated facility. The Aircraft Parts and Reclamation process will continue to be performed in a

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	REPLACE AIRCRAFT RECLAMATION/PARTS PROCESS COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	141-821	FBNV033501	8,600

facility that is too large and poorly configured and requires an excessive expenditure of facility maintenance and repair resources in order to keep it in a marginally useable condition.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-l 084, "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, new construction was found to be the most cost efficient over the life of the project. The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review on 19 May 1999. Base Civil Engineer: Lt Col Benjamin Anderson, (602) 750-3401. Aircraft Reclamation/Parts Processing Complex: 4,200 SM = 45,192 SF. Design Build - Design Cost (4% of Subtotal Cost); $311,000.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DAVIS-MONTHAN AIR FORCE BASE, ARIZONA		
4. PROJECT TITLE REPLACE AIRCRAFT RECLAMATION/PARTS PROCESS COMPLEX		5. PROJECT NUMBER FBNV033501

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	344
(4) Construction Contract Award Date	02 Jul
(5) Construction Start	02 Sep
(6) Construction Completion	03 Oct
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LITTLE ROCK AIR FORCE BASE, ARKANSAS		4. COMMAND AIR EDUCATION AND TRAINING COMMAND	5. AREA CONST COST INDEX **0.87**

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNI	CIV	
a. As of 30 Sep 00	**642**	3,793	1,166							5,601
b. End FY **2005**	**642**	**3,824**	1,169							**5,635**

7. INVENTORY DATA $(000)

a. Total Acreage 6,898	
b. Inventory Totals as of: 30 Sep 00	248.994
c. Authorization Not Yet In Inventory:	39,790
d. Authorization Requested In this Program:	10,600
e. Authorization Included In Following Program: (FY2003)	**0**
f. Planned in Next Four Program Years:	15,700
a. Remainina Deficiencv:	63,610
h. Grand Total:	378,694

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(000)	DESIGN START	STATUS CMP
171-212	C-13OJ Flight Simulator Facility	**3,285**	SM	$10,600	MAR 00	SEP 01
			Total	$10,600		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

130-142	Fire Station	3,100	SM	**$6,700**
171-618	C-l 30J Maintenance Training Facility	**3,234**	SM	$9,000

9c. Real Property Maintenance Backlog This Installation **70**

10. Mission or Major Functions: An airlift wing with five C-130 squadrons conducting operations and training -- the only DoD C-l 30 training base; an Air Mobility Command airlift group with C-l 30 aircraft; an ANG C-l 30 airlift wing; and an AFRC aerial port sauadron.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	**20**
b. Water pollution	815
c. Occupational Safety and Health	0
d. Other Environmental	**0**

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LITTLE ROCK AIR FORCE BASE, ARKANSAS	C-13OJ FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	NKAK013003	10,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-130J FLIGHT SIMULATOR FACILITY	SM	3,285	2,235	7,342
SUPPORTING FACILITIES				2,150
UTILITIES	LS			(825
PAVEMENTS	LS			(700
SITE IMPROVEMENTS	LS			(625
SUBTOTAL				9,492
CONTINGENCY (5.0%)				475
TOTAL CONTRACT COST				9,967
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				568
TOTAL REQUEST				10,535
TOTAL REQUEST (ROUNDED)				10,600
EQUIPMENT FROM OTHER APPROPRIATIONS				(30,000)

IO. Description of Proposed Construction: A two-story, high-bay facility of reinforced concrete footings and floor, masnory exterior walls, structural steel frame, and standing seam metal roof. Includes two weapon systems rainers, part task trainers, briefing rooms, classrooms, parts storage, maintenance shop, mechanical room, computer room, offices, and all necessary support.

Air Conditioning: 75 KW

11. REQUIREMENT: 10,861 SM ADEQUATE: 7,576 SM SUBSTANDARD: SM

PROJECT: Construct a C-13OJ flight simulator facility. (New Mission)

REQUIREMENT: A facility is required to provide a controlled environment to house two cockpit simulator raining assemblies, part task trainer, associated equipment, classrooms, and administration space for assigned personnel. Little Rock AFB will host training programs for C-130J aircrews.

CURRENT SITUATION: The 314 Airlift Wing (AW) will provide C-130J training for aircrews. Two full motion cockpit simulators, which will support initial qualification and continuation training, will be required by the year 2002. No existing facility is available which could be economically converted to house the simulators.

MPACT IF NOT PROVIDED: The capability of the 314 AW to provide aircrew training would be seriously fegraded. The lack of a simulator will greatly increase training costs and require the use of aircraft for training vhich would otherwise be assigned to operational missions. The wing's capability to perform its tactical airlift nission will consequently be degraded without this simulator.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." All other alternatives were considered during the development of this project. No other option can neet the operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has been prepared. Base Civil Engineer: Lt Col Drew Jeter, 501 987-3322. Flight Simulator Facility: 1,285 SM = 35,347 SF.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LITTLE ROCK AIR FORCE BASE, ARKANSAS		
4. PROJECT TITLE C-130J FLIGHT SIMULATOR FACILITY		5. PROJECT NUMBER NKAK013003

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	21-MAR-00
(b) Parametric Cost Estimates used to develop costs	YES
. (c) Percent Complete as of Jan 01	15 %
. (d) Date 35% Designed.	25-SEP-00
(e) Date Design Complete	15-SEP-01
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	**636**
(b) All Other Design Costs	318
(c) Total	954
(d) Contract	**848**
(e) In-house	**106**
(4) Construction Contract Award Date	01 Dec
(5) Construction Start	**02** Feb
(6) Construction Completion	**03** Oct

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
Simulator	**3010**	**2001**	**30000**

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE, CALIFORNIA	4. COMMAND AIR FORCE MATERIEL COMMAND		5. AREA CONST COST INDEX 1.18

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	578	2,779	4,574				231	390	749	9,301
b. End FY 2005	592	2,659	4,573				231	390	749	9,194

7. INVENTORY DATA $(000)

a. Total Acreage **300,723**	
b. Inventory Totals as of: 30 Sep 00	925.253
c. Authorization Not Yet In Inventorv:	**13,478**
d. Authorization Requested In this Program:	16,300
e. Authorization Included In Following Program: (FY2003)	11,800
f. Planned in Next Four Program Years:	57.119
a. Remainina Deficiencv:	**225,200**
h. Grand Total:	1,249,150

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(000)	DESIGN START	STATUS CMP
134-375	ADAL Terminal Area Control Facility	2,471	SM	**$4,600**		**TURN KEY**
61 O-281	Consolidated Support Facility	**5,550**	SM	$11,700		**TURN KEY**
			Total	$16,300		

9a. Future Projects: Included in the Following Program: (FY2003)

740-674	Fitness Center	5,051	SM	$11,800
			Total	$11,800

9b. Future Projects: Typically Planned Next Four Years

111-111	Repair North Base Runway	129,000	SM	$14,000
131-111	Replace Information Tech Operations Center	**3,250**	SM	$12,800
141-453	Replace Base Operations Facility	1,950	SM	$6,779
721-312	Dormitory	128	RM	$11,900
721-312	Dormitory	96	RM	$11,640

9c. Real Property Maintenance Backlog This Installation 315

10. Mission or Major Functions: Air Force Flight Test Center 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; the Propulsion Directorate of the Air Force Research Laboratory; a space surveillance squadron; and a landing site for the space shuttle.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	**5,000**

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	ADAL TERMINAL AREA CONTROL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35126	134-375	FSPM993507	4,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER TRACON FACILITY	SM	**2,471**		**3,393**
ADDITION	SM	**714**	1,819	(1,299)
ALTERATION	SM	**1,757**	1,182	(2,077:)
ANTITERRORISM/FORCE PROTECTION	SM	**2,471**	7	(17)
SUPPORTING FACILITIES				773
UTILTIIES	LS			(300)
PAVEMENT/SITE IMPROVEMENTS	LS			(400)
TEMPORARY FACILITY	LS			(50)
DEMOLITION	SM	**154**	149	(23)
SUBTOTAL				4,166
CONTINGENCY (5.0%)				208
TOTAL CONTRACT COST				4,374
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				249
TOTAL REQUEST				4,623
TOTAL REQUEST (ROUNDED)				4,600

10. Description of Proposed Construction: Construct a two-story addition with concrete foundation, floor slab, masonry walls, and metal roof. Includes renovation of existing terminal area control (TRACON) facility. Includes utilities, pavements, site improvements, temporay facility, and all other support. Demolish two temporary facilities (154 SM). Comply with DoD interim minimum force protection construction standard.

Air Conditioning: 80 KW

11. REQUIREMENT: 2,471 SM ADEQUATE: SM SUBSTANDARD: 1,911 SM

PROJECT: Add to and alter terminal area control (TRACON) facility. (Current Mission)

REQUIREMENT: A modern, properly configured TRACON facility is required to provide radar traffic advisories to aircraft in the Edwards AFB airspace corridor (approximately 52,000 square kilometers of major range airspace). Facility requirements include space for training, maintenance, air traffic control, communications equipment, and administrative support. Comply with DoD interm minimum force protection construction standard.

CURRENT SITUATION: The existing two-story concrete block facility housing primarily the air traffic control and maintenance functions was built in 1957. In subsequent years, two additions have been constructed to house training and administrative support. Two additional temporary facilities are currently providing space for overflow activities supporting required FAA technician training, configuration management and air traffic controller training. All the existing areas are characterized by over-crowding with minimal ability to accommodate an increase in equipment or staff. This project will consolidate all functions in a **single facility.**

IMPACT IF NOT PROVIDED: Lack of adequate, well-designed space will force continued use of temporary facilities for required FAA functions, reducing their effectiveness. Staffing consolidation efforts will continue to be Tampered by over-crowding. Lack of a consolidated facility will further delay the upgrade of air traffic control equipment.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	ADAL TERMINAL AREA CONTROL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35126	134-375	FSPM993507	4,600

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, add/alteration was found to be the most cost efficient over the life of the project. Base Civil Engineer: Col James Judkins, (805) 277-2910. Addition: 714 SM = 7,683 SF; Alteration: 1,757 SM = 18,905 SF. Design Build - Design Cost (4% of Subtotal Cost): $166,000.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE. CALIFORNIA		
4. PROJECT TITLE ADAL TERMINAL AREA CONTROL FACILITY		5. PROJECT NUMBER FSPM993507

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	184
(4) Construction Contract Award Date	01 Nov
(5) Construction Start	02 Jan
(6) Construction Completion	02 Dec
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	CONSOLIDATED SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976 61	O-281	FSPM963502	11,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED SUPPORT FACILITY	SM	5,550		7,391
ADMINISTRATIVE SUPPORT	SM	4,550	1,517	(6,902)
ALTERATION OF EXISTING FACILITY	SM	1,000	405	(405
ANTITERRORISM FORCE PROTECTION	SM	5,550	15	(83
SUPPORTING FACILITIES				3,125
COMMUNICATIONS SUPPORT	LS			(200
UTILITIES	LS			(900
SITE IMPROVEMENTS	LS			(450
PAVEMENTS	LS			(700
DEMOLITION	SM	5,000	175	(875
SUBTOTAL				10,516
CONTINGENCY (5.0%)				526
TOTAL CONTRACT COST				11,041
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				629
TOTAL REQUEST				11,671
TOTAL REQUEST (ROUNDED)				11,700
EQUIPMENT FROM OTHER APPROPRIATIONS				(1,440

IO. Description of Proposed Construction: Two-story facility with reinforced concrete foundation, floor slab, columns, wall panels and standing seam metal roof system. Includes handicapped access, elevator, utilities, parking, and all necessary support. Alter existing facility (bldg 2419) to consolidate multiple support functions. Demolish three facilities (5,000 SM). Comply with DoD interim minimum force protection construction standard.

Air Conditioning: 690 KW

11. REQUIREMENT: 9,529 SM ADEQUATE: 480 SM SUBSTANDARD: 10,839 SM

PROJECT: Construct a consolidated support facility. (Current Mission)

REQUIREMENT: Edwards AFB requires a facility to consolidate management and support activities. The 95th Air Base Wing (ABW) provides critical support to all Edwards AFB personnel. Base personnel require well organized access to ABW organizations and agencies to obtain effective personnel support services and perform essential mission support activities. Effective support requires a central, consolidated facility, sized to accommodate all ABW administrative offices, support group management personnel, the base personnel office, social actions office, area defense counsel, and transportation management office. This project will also renovate ,000 SM of an existing facility to accommodate consolidation of the forms and publications warehouse with the base personnel office. Comply with DoD interim minimum force protection construction standard.

CURRENT SITUATION: The 95th Air Base Wing administration and personnel support are physically scattered n seven separate buildings, four of which are "forced-use" 1950-vintage structures and another is a reused trailer omplex. These facilities have outdated electrical and mechanical systems and components and architectural mitations, resulting in high maintenance and repair costs without comparable benefits. A large portion of the BW staff has been forced to abandon their existing building, and are housed in temporary trailers. These trailers re recycled from a prior test program and are rapidly reaching the end of their useful life. Maintenance and repair f these facilities requires a considerable amount of resources.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	CONSOLIDATED SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	61 O-281	FSPM963502	11,700

IMPACT IF NOT PROVIDED: Failure to consolidate these functions will continue to perpetuate inefficient base support operations to the Air Force flight test center. Critical base functions will continue to operate in inadequate energy inefficient facilities. In addition, the costs to maintain these facilities will continue to rise. The Air Force flight test center's mission to operate as a world class facility will be impeded by a substandard working environment.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-l 084, "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, a combination of renovation and new construction was found to be the most cost efficient over the life of the project. Base Civil Engineer: Col James Judkins, (805) 277-2910. Administrative: 4,550SM = 48,958SF; Alterations: 1,000SM = 10,760SF. Design Build - Design Cost (4% of Subtotal Cost): $421,000.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE, CALIFORNIA		
1. PROJECT TITLE CONSOLIDATED SUPPORT FACILITY		5. PROJECT NUMBER FSPM963502

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	**NO**
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	468
(4) Construction Contract Award Date	02 Apr
(5) Construction Start	02 Jun
(6) Construction Completion	03 Dec
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PREWIRED WORK STATIONS	3400	2004	500
COMM CABLE/EQUIPMENT	3080	2004	940

1. COMPONENT AIR FORCE	**FY2002**	**MILITARY CONSTRUCTION PROGRAM (computer generated)**	2. DATE
3. INSTALLATION AND LOCATION LOS ANGELES AIR FORCE BASE, CALIFORNIA		4. COMMAND AIR FORCE MATERIEL COMMAND	5. AREA CONST COST INDEX 1.12

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNL	CIV	OFF	FNI	CIV	
a. As of 30 Sep 00	990	300	2,816				264	1,113	3,550	9,033
b. End FY 2005	1,015	292	2,701				264	1,113	3,550	8,935

7. INVENTORY DATA $(000)

a. Total Acreage	102	
b. Inventory Totals as of: 30 **Sep 00**		56.251
c. Authorization Not Yet In Inventorv:		6,280
d. Authorization Requested In this Program:		23,000
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		0
a. Remainina Deficiencv:		729,752
h. Grand Total:		815,283

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN START	STATUS CMP
610-128	Consolidated Base Support Complex	12,640 SM	$23,000		TURN KEY
		Total	$23,000		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Proiects: Tvoicallv Planned Next Four Years No Proiects

9c. Real Property Maintenance Backlog This Installation 48

10. Mission or Major Functions: The Space and Missile Systems Center (SMC) equips US and allied forces with satellites and the systems to employ those satellites in support of global military operations. Conducts the research, development, and sustainment of US military space systems. The Center is the cradle-to-grave system manager of numerous weather, navigation, communication, and surveillance satellite systems, ballistic missile defense systems and space launch systems.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	115
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LOS ANGELES AIR FORCE BASE, CALIFORNIA	CONSOLIDATED BASE SUPPORT COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	610-128	ACJP993033	23,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED BASE SUPPORT COMPLEX	SM	12,640		17,582
ADMINISTRATIVE SUPPORT	SM	12,640	1,378	(17,418
ANTITERRORISM FORCE PROTECTION	SM	12,640	13	(164
SUPPORTING FACILITIES				2,871
COMMUNICATIONS SUPPORT	LS			(140
UTILITIES	LS			(745
PAVEMENTS	LS			(355
SITE IMPROVEMENTS	LS			(165
DEMOLITION	SM	8,376	175	(1,466
SUBTOTAL				20,453
CONTINGENCY (5.0%)				1,023
TOTAL CONTRACT COST				21,476
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				1,224
TOTAL REQUEST				22,700
TOTAL REQUEST (ROUNDED)				23,000
EQUIPMENT FROM OTHER APPROPRIATIONS				(1,455)

IO. Description of Proposed Construction: Reinforced concrete foundations and floor slab, multi-story steel rame, roof system, metal and glass exterior, building systems, communications, and site development. Includes administrative space for base support functions and child development center. Demolition of eight buildings otaling 8,376 SM. Comply with DoD interim minimum force protection construction standard.

Air Conditioning: 1,300 KW

11. REQUIREMENT: 12,640 SM ADEQUATE: SM SUBSTANDARD: 12,299 SM

PROJECT: Consolidated Base Support Complex. (Current Mission)

REQUIREMENT: Consolidate base support activites into a central, modern facility, configured with flexibility and electronic connectivity to accomodate Base Commander, Mission Support Squadron, OSI, Security Police, Chaplain, Family Support, Vehicle Operations, Logistics, SATO, Contracting, and other support functions. Reduce facility footprint to accommodate other new facilities. Comply with DoD interim minimum force protection construction standard.

CURRENT SITUATION: Functions are currently located in eight 1950's vintage aircraft production buildings which have been ineffectively adapted to house current functions. Buildings are completely outdated in respect to ire protection, hazardous material abatement, and energy efficiency. Furthermore, because these are converted aircraft production facilities, floor plans and building systems are inadequate and inefficient. All buildings failed he structural and/or the nonstructural rapid seismic evaluation indicating retrofit is required. Abandoned production equipment, inadequately supported for seismic activity, still hangs above portions of one customer service building. Lead based paint from the inside of roofs has, over the years, flaked and crumbled, and covers he suspended ceilings above office spaces, making it extremely difficult and expensive to perform construction work in support of changing mission requirements. Seismic, fire, lead based paint and asbestos deficiencies place our workforce at risk. Also, the scattered facilities, which cannot be fully utilized due to conditions described above, extensively constrict the flexibility of the extremely limited site.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LOS ANGELES AIR FORCE BASE, CALIFORNIA	CONSOLIDATED BASE SUPPORT COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	610-128	ACJP993033	23,000

IMPACT IF NOT PROVIDED: The seismic, fire, lead based paint, and asbestos will continue to place our workforce at undue risk. Our most valuable resource, our people, will remain in substandard facilities, which are neither comensurate with the support service provided, nor economical in terms of energy usage. Customer service will not be optimized due to the functions being spread throughout several buildings. Without the additional site space this project will make available through consolidation and demolition of existing facilities, the greater base consolidation effort cannot be implemented.

ADDITIONAL: This project is part of a long range plan which will consolidate base support and local Space and Missile Systems Organization offices into one area. An economic analysis has been prepared comparing the alternatives of new construction, 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 Air Force Handbook 32-1084, “Facility Requirements.” Base Civil Engineer: Lt Col William A Kitch, (310) 363-0287. Consolidated Base Support Complex: 12,640 SM = 136,000 SF. Design Build - Design Cost (4% of Subtotal Cost): $818,000.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LOS ANGELES AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE CONSOLIDATED BASE SUPPORT COMPLEX		5. PROJECT NUMBEF ACJP993033

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	690
(4) Construction Contract Award Date	02 Sep
(5) Construction Start	02 Nov
(6) Construction Completion	04 Oct
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PREWIRED WORK STATIONS	3400	2004	1200
COMM CABLE/EQUIPMENT	3080	2004	255

1. COMPONENT AIR FORCE	**FY2002**	**MILITARY CONSTRUCTION PROGRAM (computer generated)**	2. DATE
3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA	4. COMMAND AIR MOBILITY COMMAND		5. AREA CONST COST INDEX 1.13

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CI"	OFF	ENI	CI"	OFF	FNI	CI"	
a. As of 30 Sep 00	1,232	**5,725**	**2,236**	**4**			**13**	191	169	9,570
b. End FY **2005**	1,234	**5,594**	**2,248**				**13**	191	169	9,449

7. INVENTORY DATA $(000)

a. Total Acreage	**6,383**	
b. Inventor-y Totals as of: 30 Sep 00		**738.430**
c. Authorization Not Yet In Inventorv:		13,112
d. Authorization Requested In this Program:		**6,800**
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		29,405
a. Remainina Deficiencv:		139,300
h. Grand Total:		927,047

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(OOO)	DESIGN START	STATUS CMP
171-158	Replace Support Facility	**2,322**	SM	**$6,800**		TURN KEY
			Total	**$6,800**		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

141-784	RAPCON Center	1,023	SM	$3,200
171-158	C-5 Squadron Ops/AMU	3,800	SM	$9,000
721-312	Dormitory	168	RM	$17,205

9c. Real Property Maintenance Backlog This Installation 82

10. Mission or Major Functions: HQ 15th Air Force; an air mobility wing with two C-5 squadrons and two KC-10 air refueling squadrons; an AFRC Associate air mobility wing; and David Grant Medical Center.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TRAVIS AIR FORCE BASE, CALIFORNIA	REPLACE SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	171-158	XDAT033004	6,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SUPPORT FACILITY	SM	2,322	1,950	4,528
SUPPORTING FACILITIES				1,623
UTILITIES	LS			(325
PAVEMENTS	LS			(280
SITE IMPROVEMENTS	LS			(195
COMMUNICATIONS SUPPORT	LS			(205
ACOUSTICAL	SM	650	950	(618
SUBTOTAL				6,150
CONTINGENCY (5.0%)				308
TOTAL CONTRACT COST				6,458
SUPERVISION, INSPECTION &OVERHEAD (6 %)				387
TOTAL REQUEST				6,845
TOTAL REQUEST (ROUNDED)				6.800

10. Description of Proposed Construction: Construct a one-story facility with reinforced concrete foundation and floor slab, masonry exterior, sloped metal roof, utilities, mechanical/electrical systems, landscaping and necessary support. Includes space for musical library, training, acoustically treated rehearsal studios, storage, and administration.

Air Conditioning: 167 KW

11. REQUIREMENT: 2,322 SM ADEQUATE: SM SUBSTANDARD: 1,216 SM

PROJECT: Construct Support Facility. (Current Mission)

REQUIREMENT: An adequately sized and configured facility is required to house the Air Force Band of the Golden West. Space is required for administration, acoustically treated rehearsal studios, training room, and a music library. Individual rooms are required to support several musical units that rehearse and perform simultaneously. A secure storage area is required for musical instruments and supplies, separate lockers and dressing rooms are required for men and women. Construction of this facility will help preserve Air Force heritage and tradition by stimulating Air Force esprit de corps and recruiting through music. Various band groups, such as the Concert Band, Commander's Jazz Ensemble, Galaxy Popular Music Ensemble, Ceremonial Band, Marching Band, Golden West Woodwind Quintet, the Travis Brass Quintet, Dixieland Band, and Protocol Combos perform at over 300 events annually before the entire spectrum of military and civilian audiences, to include off-base civic functions such as parades, and festivals.

CURRENT SITUATION: Band operations are currently conducted in a substandard, undersized interim facility that provides only a fraction of the required space to support a 60 member band. Neither facility can be economically upgraded to provide a consolidated band facility. Both facilities are a constant source of roof leaks and neither facility is adequately air conditioned to protect valuable equipment and instruments valued at over $2 million.

MPACT IF NOT PROVIDED: Members of the Band of the Golden West will be forced to continue to operate and practice in an undersized, substandard facility. Lack of adequate facilities will degrade band members' morale, productivity, and career satisfaction and put high cost equipment and musical instruments at risk due to roof

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA	4. PROJECT TITLE REPLACE SUPPORT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	171-158	XDAT033004	6,800

leaks and poor to nonexistent temperature and humidity controls."

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (status quo, addition/alteration, and new construction) was done. 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. BASE CIVIL ENGINEER: Col Norrie, (618) 837-2492. Support Facility: 2,322 SM = 24,994 SF.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE REPLACE SUPPORT FACILITY		5. PROJECT NUMBER XDAT033004

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	272
(4) Construction Contract Award Date	02 Jan
(5) Construction Start	02 Mar
(6) Construction Completion	03 Nov
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

1. COMPONENT AIR FORCE	**FY2002**	**MILITARY CONSTRUCTION PROGRAM (computer generated)**	2. DATE
3. INSTALLATION AND LOCATION VANDENBERG AIR FORCE BASE, CALIFORNIA	4. COMMAND AIR FORCE SPACE COMMAND		5. AREA CONST COST INDEX 1.2

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	597	2,217	2,813							5,627
b. End FY 2005	586	2,212	2,805							5,603

7. INVENTORY DATA $(000)

a. Total Acreage 115,513	
b. Inventory Totals as of: 30 Sep 00	1.255.286
c. Authorization Not Yet In Inventory:	16,504
d. Authorization Requested In this Program:	11,800
e. Authorization Included In Following Program: (FY2003)	0
f. Planned in Next Four Program Years:	29,954
a. Remainina Deficiencv:	65,473
h. Grand Total:	1,379,017

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS	START	CMP
851-I 42	Missile Transport Bridge	750 LM	$11,800		TURN KEY	
		Total	$11,800			

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

730-441	Replace Education Center	5,233 SM	$11,354
740-674	Replace Fitness Center	5,051 SM	$11,000
740-884	Child Development Center	1,900 SM	$4,500
871-183	Install Stormwater Drainage	1,590 LM	$3,100

9c. Real Property Maintenance Backlog This Installation 100

10. Mission or Major Functions: Headquarters Fourteenth Air Force; a space wing with UH-1 aircraft; West Coast space launch and missile test operations; an Air Education and Training Command space and missile operations and maintenance training group; an Air Force Reserve Command space operations squadron; and an Air National Guard space operations squadron.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	2,250
b. Water pollution	5,900
c. Occupational Safety and Health	100
d. Other Environmental	4,090

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VANDENBERG AIR FORCE BASE, CALIFORNIA	MISSILE TRANSPORT BRIDGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	851-142	XUMU023001	11,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MISSILE TRANSPORT BRIDGE	LM	750	11.435	8,576
SUPPORTING FACILITIES				1,992
SITE PREPARATION	LS			(124)
ENVIRONMENTAL MITIGATION/RESTORATION	LS			(1,868)
SUBTOTAL				10,568
CONTINGENCY (5.0 %)				528
TOTAL CONTRACT COST				11,097
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				633
TOTAL REQUEST				11,729
TOTAL REQUEST (ROUNDED)				11,800

10. Description of Proposed Construction: Construct multispan two-lane bridge with 10 meter width on El Rancho Road. Bridge will be 52 spans, 15 meters each using steel stringers with concrete deck. Provide all appurtenances for a complete and usable structure. Biological and cultural mitigation during construction will be required.

11. REQUIREMENT: 750 LM ADEQUATE: LM SUBSTANDARD: LM

PROJECT: Construct a missile transport bridge. (Current Mission)

REQUIREMENT: Provide a reliable north-south long-term transportation route through Vandenberg Air Force Base to ensure missile and hardware transport, as well as commuter access to the northern portions of the base. This project provides a missile transport bridge on El Rancho Road spanning San Antonio Creek that will not be subject to closure during annual flooding of the San Antonio Creek drainage basin.

CURRENT SITUATION: Missile transport and other vehicular traffic to the northern part of Vandenberg AFB has been restricted by overflow of the San Antonio Creek along El Rancho Road. The primary missile transport route using El Rancho Road is restricted by flooding during periods of heavy rain. Large amounts of sedimentation have been deposited along the creek bed due to increased agriculture in the local area. This sedimentation has raised the creek bed and caused flooding of several roadways. It is expected that the primary missile transport route will become impassable in approximately five years. The secondary missile transport route using the Lompoc-Casmalia Road has already been permanently closed due to sedimentation and flooding of the same creek. The last alternate route has experienced flooding and will also be impassable in approximately five years based on the current rate of sedimentation. This project presents a long term solution that reduces environmental effects and maintains missile transport off of public roads. El Rancho Road is the only remaining roadway within Vandenberg AFB to transport missiles without bringing the missiles onto public roadways. This route is currently used for transporting Minuteman III and Peacekeeper missiles for follow-on test and evaluation and is being used for transport of test boosters for the National Missile Defense program.

IMPACT IF NOT PROVIDED: It will be impossible to transport missiles to their launch silos on north Vandenberg AFB due to flooding of the primary and alternate missile transport routes. The primary route using El Rancho Road will likely be rendered impassable in five years from sedimentation. The secondary route has already been closed and the last alternative route will likely be closed in five years. These road closures will halt follow-on test and evaluation of Minuteman III and Peacekeeper missiles resulting in a degradation to the reliability of the nation's ICBM fleet. In addition, long-term transport of hazardous materials would require use of public roadways past public schools and through residential areas.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VANDENBERG AIR FORCE BASE, CALIFORNIA	MISSILE TRANSPORT BRIDGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	851-142	XUMU02300 1	11,800

ADDITIONAL: There is no criteria/scope for this project in Air Force Handbook 32-1084 “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. Base Civil Engineer: Col Steven Boyce, (805) 606-8232. Missile Transport Bridge: 750 LM = 2,460 SF. Design Build - Design Cost (4% of Subtotal Cost): $423,000.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VANDENBERG AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE MISSILE TRANSPORT BRIDGE		5. PROJECT NUMBER XUMU023001

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	472
(4) Construction Contract Award Date	01 Nov
(5) Construction Start	02 Jan
(6) Construction Completion	03 Jul
(7) Energy Study/Life-Cycle analysis was/will be performed	NO

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE, COLORADO		4. COMMAND AIR FORCE SPACE COMMAND	5. AREA CONST COST INDEX 1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	156	895	730							1,781
b. End FY 2005	140	860	828							1,828

7. INVENTORY DATA $(000)

a. Total Acreage 3,832	
b. Inventory Totals as of: 30 Sep 00	316.238
c. Authorization Not Yet In Inventory:	9,455
d. Authorization Requested In this Program:	23,200
e. Authorization Included In Following Program: (FY2003)	6,900
f. Planned in Next Four Program Years:	60,650
a. Remainina Deficiencv:	102,150
h. Grand Total:	518,593

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(000)	DESIGN START	STATUS CMP
721-312	Dormitory	144	RM	$11,200		TURN KEY
740-674	Fitness Center	5,065	SM	$12,000		TURN KEY
			Total	$23,200		

9a. Future Projects: Included in the Following Program: (FY2003)

131-132	Add/Alter SBIRS Mission Control Station	1,793	SM	$6,900
			Total	$6,900

9b. Future Projects: Typically Planned Next Four Years

131-111	Communications Center	4,451	SM	$6,800
171-476	Indoor Small Arms Range	605	SM	$2,600
142-758	Logistics Complex/HAZMART	1,230	SM	$2,900
310-127	Civil Engineer Complex	2,903	SM	$4,600
310-243	Consolidated Services Fac	3,171	SM	$5,900
310-249	Wing Headquarters Facility	4,560	SM	$10,200
730-441	Education Center	2,005	SM	$4,000
730-773	Chapel Center	1,633	SM	$3,900
730-835	Security Forces Operations Facility	2,390	SM	$6,900
740-884	Child Development Center	1,386	SM	$3,350
750-172	Athletic Fields	1	LS	$2,400
351-147	Upgrade Base Infrastructure Ph III	1	LS	$7,100

c. Real Property Maintenance Backlog This Installation	12

10. Mission or Major Functions: A space group; a space warning squadron; an operations support squadron: Aerospace Data Facility; an Air Force Reserve Command space warning squadron; and an Air National Guard wing with F-16 aircraft.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	n

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

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

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	721-312	CRWU043005	11,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (144 RM)	RM	144		8,256
DORMITORY	SM	5,040	1,630	(8,215
ANTITERRORISM/FORCE PROTECTION	SM	5,040	8	(40
SUPPORTING FACILITIES				1,841
SITE IMPROVEMENTS	LS			(260
PAVEMENTS	LS			(706
UTILITIES	LS			(440
COMMUNICATIONS SUPPORT	LS			(35
STORMWATER/ASBESTOS CLEANUP	LS			(400
SUBTOTAL				10,097
CONTINGENCY (5.0%)				505
TOTAL CONTRACT COST				10,601
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				604
TOTAL REQUEST				11,206
TOTAL REQUEST (ROUNDED)				11,200

10. Description of Proposed Construction: Two-story steel frame structure with concrete foundation and slab, split-face CMU, and standing seam metal roof. Includes room-bath/kitchen-room modules, laundry rooms, storage, lounge areas, site preparation, utilities, and all other supporting facilities. Comply with DoD interim minimum force protection construction standard.

Air Conditioning: 160 KW Grade Mix: 144 El -E4.

11. REQUIREMENT: 428 RM ADEQUATE: 236 RM SUBSTANDARD: RM

PROJECT: Construct a dormitory. (New Mission)

REQUIREMENT: Adequate permanent party enlisted quarters are required to accommodate the increased numbers of enlisted personnel to be assigned to Buckley AFB concurrent with establishment of a new active duty Air Base Wing. The SECAF/CSAF has established Air Force Space Command (AFSPC) as the installation host effective 1 October 2000. 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. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. Comply with DoD interim minimum force protection construction standard.

CURRENT SITUATION: As verified by the Air Force Dormitory Master Plan, the base has insufficient facilities to adequately accommodate permanent party unaccompanied enlisted personnel required to live on-base per Air Force Policy.

IMPACT IF NOT PROVIDED: Adequate living quarters which provide a level of privacy required for today's airmen will not be available, resulting in degradation of morale, productivity, & career satisfaction for unaccompanied enlisted personnel.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

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

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	721-312	CRWU043005	11,200

ADDITIONAL: This project meets the scope/criteria specified in the new uniform barracks construction standard, known as “one-plus-one”, established by OSD. All known alternatives were considered during the development of this project. No other option could meet mission requirements. Therefore, no economic analysis was needed or performed. No Real Property Maintenance expenditures have occurred for unaccompanied enlisted housing at Buckley AFB over the past two years. Base Civil Engineer: Lt. Col. William D. Valenti, 719-556-7633. Dormitory: 5,040 SM = 54,250 SF. Design Build - Design Cost (4% of Subtotal Cost): $404,000.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION

BUCKLEY AIR FORCE BASE, COLORADO

I. PROJECT TITLE	5. PROJECT NUMBER
)ORMITORY	CRW U043005

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Resign Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:

(a) Standard of Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) Design Allowance 448

(4) Construction Contract Award Date 01 Dec

(5) Construction Start 02 Feb

(6) Construction Completion 01 Jul

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR FORCE BASE, COLORADO	FITNESS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	740-674	CRWU023001	12,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FITNESS CENTER	SM	1	9,336,000	9,336
FITNESS CENTER 1	SM	4,626	1,535	(7,101)
INDOOR LAP POOL/TRACK	LS			(1834)
UPGRADE AEROBICS FACILITY	SM	439	800	(351)
ANTITERORRISM FORCE PROTECTION	LS			(50)
SUPPORTING FACILITIES				1,490
UTILITIES/PAVEMENTS/SITE IMPROVEMENTS	LS			(1,150)
ELEVATOR/COMMUNICATION SUPPORT	LS			(100)
DEMOLITION	LS			(80)
ENVIRONMENTAL REMEDIATION	LS			(160)
SUBTOTAL				10,826
CONTINGENCY (5.0%)				541
TOTAL CONTRACT COST				11,367
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				648
TOTAL REQUEST				12,015
TOTAL REQUEST (ROUNDED)				12,000

10. Description of Proposed Construction: Concrete foundation/floor slab, masonry walls, steel frame, and standing seam metal roof. Provide gymnasium, racquetball courts, lap pool, indoor track, weight rooms, and upgrade existing building #30 (aerobics facility) to integrate into the fitness center. Includes elevator and all other support. Comply with DoD interim minimum force protection construction standard.
Air Conditioning: 740 KW

11. REQUIREMENT: 6,255 SM ADEQUATE: 1,190 SM SUBSTANDARD: SM

PROJECT: Construct a fitness center. (Current Mission)

REQUIREMENT: Buckley Air National Guard Base (ANGB) converted to active installation status on 1 Oct 00 under Air Force Space Command. The total active duty population is projected to grow to over 3,000 in the Denver area. The Air Reserve Component (which includes both the Reserves and the National Guard) will consist of 1,475 military and 246 civilians. A modern fitness facility is required to promote readiness, fitness, morale, and quality of life for military members by providing effective, efficient, and pleasant spaces for exercise, training, sports, and health and wellness testing. Comply with DoD interim minimum force protection construction standard.

CURRENT SITUATION: Buckley Air Force Base has three inadequate fitness buildings. The primary one is not owned or operated by the Air Force and is only accessible to members possessing clearance to enter the restricted area where it is located. Although it has some exercise equipment, this building is old, inefficient and lacks a majority of the core amenities now required by the USAF Fitness Facilities Design Guide. The other fitness buildings are accessible to the general base populace, but are small and have limited cardiovascular and weight training equipment. One of these facilities is a temporary modular building which must be replaced by a permanent facility. The current Health and Wellness function is located in this temporary building. The last building is a 439 square meter aerobics facility. It was designed to support the residents of the new dormitory but

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR FORCE BASE, COLORADO	FITNESS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	740-674	CRWU023001	12,000

is too small to support the authorized base population.

IMPACT IF NOT PROVIDED: The growing DoD military and civilian population at Buckley ANGB and their eligible dependents will be forced to use facilities in the local community. The off-base establishments are either expensive or fail to meet AF standards. Eligible personnel do not have equal access to facilities in the restricted area. The 439 square meter aerobics facility is sized for dormitory residents only. The state of readiness, fitness, and quality of life of Active Duty, National Guard and Reserve members, eligible dependents, and DoD civilians will continue to decline.

ADDITIONAL: This project meets the criteria/scope specified in the USAF Fitness Facilities Design Guide, October 1999. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared. The demolition cost includes relocation of the gas metering facility. Base Civil Engineer: Lt Col James R. Mills, (719) 556-7631. Fitness Center: 4,626 SM = 49,776 SF; Upgrade Aerobic Facility: 439 SM = 4,724 SF. Design Build - Design Cost (4% of Subtotal Cost): $433,000.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION

BUCKLEY AIR FORCE BASE. COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
FITNESS CENTER	CRWU023001

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:

(a) Standard of Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) Design Allowance

(4) Construction Contract Award Date 01 Nov

(5) Construction Start 02 Jan

(6) Construction Completion **03** Jul

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SCHRIEVER AIR FORCE BASE, COLORADO		4. COMMAND AIR FORCE SPACE COMMAND	5. AREA CONST COST INDEX 1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	640	1,349	1,161							3,150
b. End FY 2005	654	1,283	1,162							3,099

7. INVENTORY DATA $(OOO)

a. Total Acreage	4,172	
b. Inventory Totals as of: 30 Sep 00		286,576
c. Authorization Not Yet In Inventory:		25,751
d. Authorization Requested In this Program:		19,000
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		19,500
g. Remaining Deficiency:		93,900
h. Grand Total:		444,727

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN START	STATUS CMP
131-132	SBIRS Mission Control Station Backup	4,894 SM	$19,000	MAR 00	SEP 01
		Total	$19,000		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

442-758	Secure Area Logistics Facility	5,200 SM	$7,800
730-832	Vehicle Gates/Visitor Control Center	400 SM	$3,000
730-835	Security Forces Operations Facility	1,840 SM	$4,100
740-316	Community Center/Chapel	2,300 SM	$4,600

9c. Real Property Maintenance Backlog This Installation 21

10. Mission or Major Functions: A space wing; the Space Warfare Center; the Air Force Space Battlelab; an intelligence squadron: an Air Force Reserve Command space group; and the Joint National Test Facility.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SCHRIEVER AIR FORCE BASE, COLORADO	SBIRS MISSION CONTROL STATION BACKUP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
64441	131-132	GLEN003003	19,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SBIRS MISSION CONTROL STATION BACKUP	SM	1	12,294	12,291
(2)SBIRS MISSION CONTROL STATION BACKUP	SM	4,894	2,500	(12,235
ANTITERRORISM/FORCE PROTECTION	SM	4,894	12	(59
SUPPORTING FACILITIES				4,829
UTILITIES	LS			(950
PAVEMENTS	LS			(65C
SITE IMPROVEMENTS	LS			(454
GENERATORS/UNINTERRUPTIBLE POWER	LS			(2,496
SECURITY CONTROL FENCE/LIGHTS	LS			(25C
SECURITY FACILITY	SM	20	1,450	(29
SUBTOTAL				17,123
CONTINGENCY (5.0%)				856
TOTAL CONTRACT COST				17,979
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				1,025
TOTAL REQUEST				19,004
TOTAL REQUEST (ROUNDED)				19,000

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, concrete walls, structural steel frame and roof system, computer access flooring, fire protection, environmental controls, Sensitive Compartmented Information Facility (SCIF), Intrusion Detection System (IDS), Uninterruptible Power Supply (UPS support, and redundant electric power and communication systems.

Air Conditioning: 750 KW

11. REQUIREMENT: 4,894 SM ADEQUATE: SM SUBSTANDARD: SM

PROJECT: Construct a Space Based Infrared System (SBIRS) Mission Control Station Backup. (New Mission)

REQUIREMENT: This project directly supports an Air Force Core Modernization program. The primary SBIRS mission control station requires a back-up facility to minimize system vulnerability. The Defense Support Program (DSP) has for many years provided strategic early warning and assessment in defense of North America. The system uses 1970's technology which is outdated, expensive to maintain and repair, and ineffective for supporting post Cold-War tactical warning. SBIRS will consolidate DSP functional capability at the primary and back-up mission control stations and.close-down costly overseas ground stations. Security requirements include enclosed entry, internal sensors, no windows, few doors, security fencing, area sensors, and vehicle barriers. The back-up facility must be within a reasonable distance from the primary facility.

CURRENT SITUATION: The primary SBIRS mission control station located at Buckley Air Force Base, Colorado, provides strategic early warning and assessment in defense of North America. For North American missile warning, US Space Command requires a separate and secure back-up facility to assure continuity of warning operations in event of a peacetime catastrophe. An interim back-up facility is being developed at the contractor's facility in Boulder, Colorado and will be used until the permanent facility is completed. Although not approved for long-term operations, the interim back-up will act as the mission transition facility while the primary mission control station is upgraded with new mission hardware and software to support Increment 2 of the SBIRS

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SCHRIEVER AIR FORCE BASE, COLORADO	SBIRS MISSION CONTROL STATION BACKUP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
64441	131-132	GLEN003003	19,000

program. The interim back-up cannot be approved for long term use due to lack of security and floorspace as well as the close proximity of local civilian population.

IMPACT IF NOT PROVIDED: Without the backup operations facility, the North American Aerospace Defense Command (NORAD) and US Space Command will be unable to provide assured, unambiguous missile warning to the National Command Authority. The SBIRS program will be vulnerable to peacetime threats including scheduled and unscheduled outages leaving US forces at home and in theater blind to world missile launches. Lack of a back-up facility will result in a compromise of our ability to accurately assess threats of tactical conflicts around the world, and limit our ability to characterize space oriented vehicles/events and intelligence gathering.

ADDITIONAL: There is no criteria/scope for this project in Air Force Handbook 32-I 084, "Facility Requirements." Space requirements are based on the primary SBIRS mission control station at Buckley Air Force Base, Colorado. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. Base Civil Engineer: Lt Col Carmelo Cruz, (719)567-4200. SBIRS Mission Conrol Station Backup: 4,894 SM = 52,679 SF.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION

SCHRIEVER AIR FORCE BASE, COLORADO

4. PROJECT TITLE	5. PROJECT NUMBER
SBIRS MISSION CONTROL STATION BACKUP	GLEN003003

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	21-MAR-00
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of Jan 01	15 %
• (d) Date 35% Designed.	10-SEP-00
(e) Date Design Complete	15-SEP-01
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	1,110
(b) All Other Design Costs	**555**
(c) Total	**1,665**
(d) Contract	1,400
(e) In-house	**265**
(4) Construction Contract Award Date	01 Nov
(5) Construction Start	02 Jan
(6) Construction Completion	04 Apr

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION USAF ACADEMY, COLORADO		4. COMMAND UNITED STATES AIR FORCE ACADEMY	5. AREA CONST COST INDEX 1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	929	1,011	2,483		182		21	4,000	190	8,816
b. End FY 2005	902	872	2,223		182		21	4,000	190	8,390

7. INVENTORY DATA $(000)

a. Total Acreage	53,276	
b. Inventory Totals as of: 30 Sep 00		429.549
c. Authorization Not Yet In Inventory:		20,648
d. Authorization Requested In this Program:		25,500
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		23,900
a. Remainina Deficiencv:		36,800
h. Grand Total:		536,397

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN START	STATUS CMP
149-962	Replace Control Tower	1 EA	$6,400	TURN KEY	
171-157	ADAL Athletic Facilities, PH 2	14,977 SM	$11,400	TURN KEY	
721-312	Install Air Conditioning - Enlisted Dorm	1 LS	$1,300	AUG 99	FEB 00
841-425	Upgrade Potable Water System, Cadet Area	800 KG	$6,400	TURN KEY	
		Total	$25,500		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

112-211	Upgrade Airfield Pavements	54,216 SM	$5,000
131-111	ADAL Communication Facility	1,208 SM	$12,000
179-371	Freefall Simulator Facility	2,378 SM	$2,500
219-943	Zone Maintenance Facility	1,100 SM	$2,200
730-773	ADAL Community Center Chapel	975 SM	$2,200

9c. Real Property Maintenance Backlog This Installation 133

10. Mission or Major Functions: Responsible for providing education and training for cadets to become Air Force officers; a training wing including three flying training squadrons supporting parachuting and glider aircraft; and an air base wing.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY, COLORADO	ADAL ATHLETIC FACILITIES PH2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
86076	171-157	XQPZ024011	11,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADAL ATHLETIC FACILITY PH2	LS			7,734
ALTER ATHLETIC FACILITY	SM	4,758	923	(4,392
EXTERIOR PLAZA	SM	5,906	549	(3,242
ANTITERRORISM FORCE PROTECTION	LS			(100
SUPPORTING FACILITIES				2,515
CONNECTOR	LS			(1,540
ASBESTOS REMOVAL	LS			(975
SUBTOTAL				10,249
CONTINGENCY (5.0%)				512
TOTAL CONTRACT COST				10,761
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				613
TOTAL REQUEST				11,375
TOTAL REQUEST (ROUNDED)				11,400

10. Description of Proposed Construction: Reconfigure existing space to provide lockers for male/female cadets, staff members, referees, and visiting teams. Includes meeting rooms, media center, connector to the field house, storage, and all necessary support. Includes DoD interim standard force protection measures.

11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS

PROJECT: Add/Alter Athletic Facility, Phase 2. (Current Mission)

REQUIREMENT: A complete, adequately sized and configured athletic facility to support athletics and fitness or 4000 cadets, eliminate Title IX gender inequities, and meet National Collegiate Athletic Association (NCAA) standards for accreditation. Antiterrorism force protection measures to comply with the DoD interim minimum force protection standard.

CURRENT SITUATION: The institutional schedule of classes and meals requires all athletes to use the athletic facilities during a single 4-hour block in the afternoon. These facilities have not been expanded since the cadet corps increased from 2400 to 4000 in 1968, nor since the admission of women in 1976. Lockers and sports medicine rooms have Title IX gender equity deficiencies. Existing locker rooms cannot accommodate men and women referees and multiple teams. Visiting teams and referees must dress in off-site hotel rooms or make-shift emporary dressing areas. Existing weight rooms cannot accommodate the number of cadets requiring strength raining. Accessibility and utility code deficiencies require mitigation.

IMPACT IF NOT PROVIDED: Locker and medical/training rooms have NCAA gender equity deficiencies and fall short of NCAA Division I standards. Space and program shortfalls will be written up as deficiencies in the year 2001 NCAA certification visit to the Academy. Athletic training shortfalls preclude effective injury prevention work nd result in less than ideal treatment and rehabilitation results. Personnel will continue to be exposed to ccessibility, heating, ventilation, and air conditioning code deficiencies.

ADDITIONAL: There is no criteria/scope for this project in Air Force Handbook 32-1084, "Facility Requirements." However, the requirements for this project were developed by an engineering study and validated y an independent design team. All known options were considered during the development of this project. No ther option could meet the mission requirements; therefore, no economic analysis was needed or performed. A

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY, COLORADO	ADAL ATHLETIC FACILITIES PH2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
86076	171-157	XQPZ02401 'I	11,400

certificate of exception has been prepared. Resolution of gender equity and other deficiencies will only be achieved after completion of this project. Base Civil Engineer: Col Scott Borges (719) 333-2660. Alter Athletic Facilities: 4,758 SM = 51 ,196 SF; Exterior Plaza: 5,906 SM = 63,549 SF. Design Build - Design Cost (4% of Subtotal Cost): $410,000.

COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION

USAF ACADEMY. COLORADO

4. PROJECT TITLE	5. PROJECT NUMBEF
\DAL ATHLETIC FACILITIES PH2	XQPZ0240 11

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:

(a) Standard of Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) Design Allowance 456

(4) Construction Contract Award Date 01 Dec

(5) Construction Start 02 Feb

(6) Construction Completion 04 Jan

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY, COLORADO	INSTALL AIR CONDITIONING - ENLISTED DORM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
86076	721-312	XQPZ044001	1,300

9. COST ESTIMATES

ITEM	UIM	QUANTITY	UNIT COST	COST ($000)
INSTALL AIR CONDITIONING	TN	95	12,000	1,140
SUPPORTING FACILITIES				15
PAVEMENTS	LS			(5
SITE IMPROVEMENTS	LS			(10
SUBTOTAL				1,155
CONTINGENCY (5.0%)				58
TOTAL CONTRACT COST				1,213
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				69
TOTAL REQUEST				1,282
TOTAL REQUEST (ROUNDED)				1,300

IO. Description of Proposed Construction: Construct the third and final chiller within an existing enclosure to provide" air conditioning for building number 5223. Provide fan coil units and controls for each individual dormitory room.

Air Conditioning: 332 KW

11. REQUIREMENT: 95 TN ADEQUATE: TN SUBSTANDARD: TN

PROJECT: Install air conditioning - enlisted dormitory. (Current Mission)

REQUIREMENT: Install air conditioning in an enlisted dormitory. This is the third phase of a 3-phased project to provide air conditioning in 3 dormitories on the Academy.

CURRENT SITUATION: This dormitory has no air conditioning at present. Temperatures inside reach into the 90's during the summer months and do not sufficiently cool down at night. Occupants on shift work cannot sleep luring the day due to the heat buildup. Air conditioning of two other dormitories adjacent to and under 1/2 the size of this facility, phases 1&2, were recently completed. In accordance with USAFA design standards, this facility is nainly constructed of glass and aluminum.

MPACT IF NOT PROVIDED: If this "Quality of Life " project is not provided, occupants will continue to suffer uncomfortable sleeping temperatures during the summer months and further hinder efforts of the Air Force to retain enlisted personnel.

ADDITIONAL: Air conditioning this facility is considered to be the only feasable alternative to providing cooler emperatures for enlisted personnel, therefore a full economic analysis was not performed. A certificate of exception has been prepared. Base Civil Engineer: Col Scott K. Borges, (719) 333-2660.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION USAF ACADEMY, COLORADO		
4. PROJECT TITLE NSTALL AIR CONDITIONING - ENLISTED DORM		5. PROJECT NUMBER XQPZ044001

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	01 -AUG-99
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	100%
• (d) Date 35% Designed.	01 -OCT-99
(e) Date Design Complete	01 -FEB-00
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	**78**
(b) All Other Design Costs	**39**
(c) Total	**117**
(d) Contract	**90**
(e) In-house	**27**
(4) Construction Contract Award Date	01 Dec
(5) Construction Start	**02** Feb
(6) Construction Completion	**02** Sep

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY, COLORADO	REPLACE CONTROL TOWER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
86076	149-962	XQPZ984005	6.400

9. COST ESTIMATES

ITEM	U/k	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES	LS			3,346
CONTROL TOWER	LS			(3313)
ANTITERRORISM FORCE PROTECTION	LS			(33.138:
SUPPORTING FACILITIES				2,417
UTILITIES	LS			(450)
PAVEMENTS	LS			(250)
DEMO TOWER / SPT. STRUCTURES	LS			(200)
COMMUNICATIONS	LS			(750)
SITE IMPROVEMENTS	LS			(165)
SPECIAL FOUNDATION	LS			(174)
EXTERIOR EQUIP. WALUCONSOLE	LS			(150)
B/U POWER / ELEVATOR	LS			(278)
SUBTOTAL				5,763
CONTINGENCY (5.0%)				288
TOTAL CONTRACT COST				6,051
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				345
TOTAL REQUEST				6,396
TOTAL REQUEST (ROUNDED)				6,400
EQUIPMENT FROM OTHER APPROPRIATIONS				(150)

10. Description of Proposed Construction: Reinforced concrete slab, special foundation, superstructure, tower cab, operations and training areas. Includes support space, elevator, all site work, communications, utilities, mechanical, electrical, fire protection and backup power. Relocate ground to air transmitter and receiver site. Demolish existing tower/supt structures. Comply with DoD interim minimum force protection construction standard.

Air Conditioning: 53 KW

11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS

PROJECT: Construct a control tower. (Current Mission)

REQUIREMENT: A properly sited control tower of modified standard design, set at the correct height, is required to provide air traffic controllers with a clear view of the runways, taxiways, traffic patterns, ramps and parking areas. A 92 square meter cab should accommodate 8 controllers, no more than 5 visitors at a time, modern air traffic control equipment, and space for crew briefing, operations, training, and a cadet area. The facility is needed to ensure adequate, safe, airborne and ground traffic control within the Academy aerodrome. Comply with DoD interim minimum force protection construction standard.

CURRENT SITUATION: The USAF Academy has one four-story main control tower to control east operations and one remote two-story Runway Supervisory Unit (RSU) to control west operations. The east main control tower was constructed in 1973 and is presently waived due to 7:1 ratio encroachment. The tower cab is undersized, does not provide proper viewing of the overhead pattern, and will not accommodate new traffic control replacement equipment. The existing traffic control equipment has reached its useful life expectancy and

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY, COLORADO	REPLACE CONTROL TOWER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
86076	149-962	XQPZ984005	6,400

repair parts are hard to find, or nonexistent. Due to the lack of an elevator, a vertical ladder to the cab creates a climbing hazard for everyone. The west RSU and cadet shelter, located 150' from the edge of the center runway, will be demolished and the functions consolidated within the new tower and support space. The Ground to Air Transmitter and Reciever (GATR) site antenna poles will be relocated outside the airfield obstruction limits. Consolidation of air traffic controllers will make coordination of air traffic easier and safer. The Academy will continue to support the Air Force Obstruction Reduction Initiative by removing three obstructions; the north GATR site antenna poles, the cadet shelter and RSU. The Academy owns an extremely diverse operation with a total of 215,000 take-offs and landings annually. The numbers and types of aircraft flown are: (3) TG-3, (12) TG-4, (4) ASK 21, (9) TG-7A, (6) Super Cubs, (2) TG-11, (3) C-l 50, (4) T-41, and 16 Aero Club aircraft.

IMPACT IF NOT PROVIDED: Overcrowded cab conditions will continue to limit air traffic controller mobility and impact controller communications with pilots. The additional effort to overcome overcrowded conditions coupled with limited view of the overhead pattern add unnecessary levels of stress for air traffic control personnel, jeopardizes pilot safety, and increases possible loss of life and aircraft. Down-time due to maintenance of outdated air traffic control systems will continue to hinder valuble training time.

ADDITIONAL: This project was developed utilizing the Air Force Air Traffic Control Tower Design Guide. Analysis of reasonable options for accomplishment of this mission, status quo, and new construction, indicates new construction is the only feasable alternative to meet operational requirements. Status quo will not eliminate current deficiencies in height, sight, and operational space for equipment and personnel. The existing tower structure will not support additional stories nor provide space for updated air traffic control equipment. Therefore a full economic analysis was not performed. A certificate of exception has been prepared. Base Civil Engineer: Col Scott K. Borges, (719) 333-2660.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	
USAF ACADEMY, COLORADO	
4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE CONTROL TOWER	XQPZ984005

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	YES
(b) Where Design Was Most Recently Used -	Little Rock Dist COE
(3) Design Allowance	256
(4) Construction Contract Award Date	02 Apr
(5) Construction Start	02 Jun
(6) Construction Completion	03 Sep
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
Furniture/Office Equipment	3400	2003	150

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY, COLORADO	UPGRADE POTABLE WATER SYSTEM, CADET AREA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
86076	842-245	XQPZ044014	6,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE POTABLE WATER SYSTEM, CADET AREA	KG	800	3,550	2,840
SUPPORTING FACILITIES				2,912
SITE IMPROVEMENTS	LS			(2,912
SUBTOTAL				5,752
CONTINGENCY (5.0%)				288
TOTAL CONTRACT COST				6,040
SUPERVISION, INSPECTION &OVERHEAD (5.7 %)				344
TOTAL REQUEST				6,384
TOTAL REQUEST (ROUNDED)				6,400

10. Description of Proposed Construction: Correct life safety, fire supression, and distribution deficiencies within the cadet area by adding an additional 800,000 gallon capacity to potable reservoir 1. Additionally upgading two main distribution lines, Fairchild Hall area and Cadet Gym/ Fieldhouse area, to 16-in lines.

11. REQUIREMENT: 1,600 KG ADEQUATE: 800 KG SUBSTANDARD: KG

PROJECT: Upgrade potable water system, cadet area. (Current Mission)

REQUIREMENT: Add additional 800K gal of potable water capacity to support demand and fire suppression requirements to support cadet area. Project adds additional reservoir tank in series with existing tank at site of current reservoir. Replaces two existing undersized main distribution lines with 16-inch lines.

CURRENT SITUATION: System currently has 800,000 gal capacity. System was originally designed to support 2400 cadets; cadet wing has since grown to 4000 cadets with associated additional construction. Additional facilities and changes to the irrigated areas around the cadet area has increased the potable water demands and storage requirements. The existing water reservoir #1 is not capable of meeting proposed future water system demands, even with reduction of potable water irrigation in the cadet area. Computer simulations indicated that the current 800 KG reservoir #1 would drain in less than 10 hours. Further modeling indicated that an additional 300 KG of capacity would meet projected future requirements. Presently, a potable reservoir sized at 0.8 MG, located just southwest of the cadet area, cannot support fire flow, daily consumption, and irrigation demands. No additional capacity has been added to this location since original construction of the Academy.

IMPACT IF NOT PROVIDED: Insufficient fire suppression ability and limited potable water supply will continue to put academy facilities and personnel at risk. A fire in Fairchild Hall is the overriding factor determining the need for capacity capability increase at reservoir #1. The existing 8-inch and 12-inch main distribution lines are now Undersized. A MILCON project to ADAL Fieldhouse in FY01/02, which adds an additional 10,219 SM, compounds the issue. Therefore, this project is essential for ensuring adequacy and availablity of domestic water for cadets and staff, as well as proper fire protection.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-I 084, "Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction, leasing) was done. It indicates that upgrade is the only option to meet operational requirements. Because of this, a full economic analysis was not done. A certificate of exception has been prepared. Base Civil Engineer: Col Scott Borges, (719) 333-2660.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION USAF ACADEMY, COLORADO		
4. PROJECT TITLE UPGRADE POTABLE WATER SYSTEM, CADET AREA		5. PROJECT NUMBER XQPZ044014

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:

(a) Standard of Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) Design Allowance 192

(4) Construction Contract Award Date 02 Apr

(5) Construction Start 02 Jun

(6) Construction Completion **03** Aug

(7) Energy Study/Life-Cycle analysis was/will be performed NO

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

1. COMPONENT AIR FORCE	**FY2002** MILITARY CONSTRUCTION PROGRAM **(computer generated)**	2. DATE
3. INSTALLATION AND LOCATION BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA	4. COMMAND AIR FORCE DISTRICT OF WASHINGTON	5. AREA CONST COST INDEX 0.95

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	ENI	CIV	OFF	ENI	CIV	
a. As of 30 Sep 00	392	1,245	916				301	784	40	3,678
b. End FY 2005	392	1,231	953				301	784	40	3,701

7. INVENTORY DATA $(000)

a. Total Acreage 607	
b. Inventory Totals as of: 30 Sep 00	277.552
c. Authorization Not Yet In Inventorv:	3,473
d. Authorization Requested In this Program:	2,900
e. Authorization Included In Following Program: (FY2003)	0
f. Planned in Next Four Program Years:	9,025
a. Remainina Deficiencv:	20,200
h. Grand Total:	313,150

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN START	STATUS CMP
730-774	Add/Alter Chapel Center	2,140 SM	$2,900	JUN 01	Apr 02
		Total	$2,900		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

721-315	Visiting Quarters	4,500 SM	$9,025

9c. Real Property Maintenance Backlog This Installation 104

10. Mission or Major Functions: A support wing for Air Force personnel in the National Capitol Region; Headquarters USAF functions including 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 Operations Agency; USAF Band; and USAF Honor Guard.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA	ADD/ALTER CHAPEL CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
91376	730-774	BXUR991022A	2,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER CHAPEL CENTER	SM	2,140	1,00(	2,117
ADDITION	SM	340	1,991	(677
ALTERATION	SM	1,800	800	(1,44(
SUPPORTING FACILITIES				474
UTILITIES	LS			(220
PAVEMENTS	LS			(50
SITE IMPROVEMENTS	LS			(75
SELECTIVE INTERIOR DEMOLITION	LS			(50
AT/FP MINIMUM MEASURES	SM	2,138	6	(13
SEISMIC UPGRADES	SM	2,140	31	(66
SUBTOTAL				2,591
CONTINGENCY (5.0%)				130
TOTAL CONTRACT COST				2,721
SUPERVISION, INSPECTION &OVERHEAD (6 %)				163
TOTAL REQUEST				2,804
TOTAL REQUEST (ROUNDED)				2,900

IO. Description of Proposed Construction: Add/Alter the main chapel, sanctuary and existing courtyard. Add administrative space by adding CMU wall additions, and convert existing area to classrooms. Replace all utilities, upgrade fire protection, water and chilled water service to the building. Correct code deficiencies to include life safety, antiterrorism/force protection and seismic.

Air Conditioning: 100 KW

11. REQUIREMENT: 2,140 SM ADEQUATE: SM SUBSTANDARD: 2,140 SM

PROJECT: Add to and alter Main Chapel Center. (Current Mission)

REQUIREMENT: Revitalize the main chapel center. Construct 340 SM of additions that will include converting he courtyard into multi-purpose space to classrooms. Renovate the existing 530 SM chapel sanctuary and adjacent lobby space, along with new windows, roofing, cupola and redesigned altar area. This scope is from an VE study and was accepted by the using agency. Some additional parking is required along with required site nprovements in accordance with AT/FP Physical Security Minimum Standards.

CURRENT SITUATION: The chapel serves clientele as diversified as any in the Air Force. It was constructed in 976 when the base's religious mission was to provide liturgical needs for the base. The needs are no longer imply liturgical; now the chapel must serve a full religious program, to include social and educational programs o enhance the "Quality of Life" within the community. There have been 185 new family housing units onstructed in the Navy area which has increased the number of people that now attend the chapel for worship nd educational services causing enormously overcrowded conditions. There is not enough room to socialize /hen the sanctuary is filled to capacity. As mentioned, the chapel is responsible for providing services to more ian 1 lth Wing. Along with the Navy, the DIAC, Pentagon, base tenants and DoD civilians attend the chapel for services. The DIAC alone will be adding approximately 42,000 SM of administrative space in the coming years. The chapel center is the primary resource for religous education (RE) at Bolling AFB. Without this project,

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA	ADD/ALTER CHAPEL CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
91376	730-774	BXUR991022A	2,900

families will have to continue to attend other churches or not go at all. The chapel supports many programs, some are the Boy & Girl Scouts, AF Band and Command organizations for meetings and get togethers. There is no space large enough for briefings and the existing restrooms are inadequate for the numbers currently using the facility.

IMPACT IF NOT PROVIDED: The impact of not having enough space seriously impacts the entire chapel program. The chapel community acts as an unofficial forum for the base's mission and morale to be promulgated and discussed. The families and singles who attend the chapel, commit themselves to good mental health and mutual support as they practice their faiths. They certainly have a greater and faster avenue to counseling should they encounter problems. The continued lack of space will drive more and more people away from the chapel reducing base cohesiveness and a sense of community. Indirectly, lack of space could actually be reflected in an Increased level of stress and frustration among base members.

ADDITIONAL: Sustainable design shall be employed wherever practical. Allow planning for this scope of work to consider the the requirements as specified in AFI 32-1021, chapter 2 as general planning critieria for this project. All work shall be in accordance with Air Force energy consumption and efficiency goals and all new construction criteria. An economic analysis was performed based on the improvement alternative. Base Civil Engineer: Col Randall J. Thady (202) 767-5565.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	**(computer generated)**	

3. INSTALLATION AND LOCATION

BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA

4. PROJECT TITLE	5. PROJECT NUMBER
ADD/ALTER CHAPEL CENTER	BXUR991022A

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	25-JUN-01
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	1 %
• (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	174
(b) All Other Design Costs	a7
(c) Total	261
(d) Contract	218
(e) In-house	44
(4) Construction Contract Award Date	02 Apr
(5) Construction Start	02 Jun
(6) Construction Completion	03 Jun

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CAPE CANAVERAL AIR STATION, FLORIDA	4. COMMAND AIR FORCE SPACE COMMAND		5. AREA CONST COST INDEX 0.86

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNL	CIV	
a. As of 30 Sep 00	150	149	4,389							4,688
b. End FY 2005	138	149	4,389							4,676

7. INVENTORY DATA $(000)

a. Total Acreage	15,428	
b. Inventory Totals as of: 30 Sep 00		633.120
c. Authorization Not Yet In Inventorv:		1,617
d. Authorization Requested In this Program:		7,800
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		7,169
a. Remainina Deficiencv:		0
h. Grand Total:		649.706

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN START	STATUS CMP
130-142	Replace Fire/Crash Rescue Station	2,932 SM	$7,800		TURN KEY
		Total	$7,800		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

141-454	Satellite Processing Support Facility	2,370 SM	$4,169
227-228	Satellite Storage Facility	350 SM	$3,000

9c. Real Property Maintenance Backlog This Installation 36

10. Mission or Major Functions: An Air Force Space Command installation associated with Patrick AFB which includes monitoring multiple space launch support contracts and with as well as the management of facility repair/maintenance and utilization, and the security and environmental protection.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CAPE CANAVERAL AIR STATION, FLORIDA	REPLACE FIRE/CRASH RESCUE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31476	130-142	DBEH983001	7,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE/CRASH RESCUE STATION	LS			4,674
(2)FIRE/CRASH RESCUE STATION	SM	2,932	1,586	(4,650)
ANTITERRORISM FORCE PROTECTION	SM	2,932	8	(23)
SUPPORTING FACILITIES				2,326
UTILITIES	LS			(565)
PAVEMENTS	LS			(598)
SITE IMPROVEMENTS	LS			(660)
EMERGENCY POWER GENERATOR	LS			(120)
COMMUNICATIONS SUPPORT	LS			(104)
DEMOLITION/ASBESTOS ABATEMENT	LS			(280)
SUBTOTAL				7,000
CONTINGENCY (5.0%)				350
TOTAL CONTRACT COST				7,350
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				419
TOTAL REQUEST				7,769
TOTAL REQUEST (ROUNDED)				7,800
EQUIPMENT FROM OTHER APPROPRIATIONS				(263)

10. Description of Proposed Construction: Foundation, slab on grade, concrete masonry walls and built-up roof. ncludes kitchenette, sleeping quarters, latrines/showers, training area, alarm room, adminstrative area, drive-hrough stalls for fire equipment, emergency generator, and all necessary support. Demolish one building (1,587 SM). Comply with DoD interim minimum force protection construction standard.

Air Conditioning: 150 KW

11. REQUIREMENT: 2,932 LS ADEQUATE: LS SUBSTANDARD: 1,587 LS

PROJECT: Construct a fire/crash rescue station. (Current Mission)

REQUIREMENT: A properly sized facility is required to support the base and airfield fire department mission, consisting of fire prevention activities, aircraft/structural fire suppression, and rescue activities. Properly sized sleeping, kitchen/dining, and physical training areas, as well as a proper fire warning/suppression system are required to ensure readiness. Comply with DoD interim minimum force protection construction standard.

CURRENT SITUATION: This 1958-vintage fire station has had no major renovations since construction and is costly to maintain. It was originally designed for a much smaller fleet of fire protection equipment and is not configured for new larger firefighting equipment. Without "drive-through" capability, existing crash trucks must carefully back into their bays with only a few centimeters of clearance. A new aerial ladder truck will have to be loused over 1.7 kilometers away, significanly degrading response time. The building infrastructure is failing and s unable to support the existing mission. Asbestos abatement requires a complete facility shutdown which is not permitted due to operational commitments and launch schedules, Environmental Health has also identified excess iron, copper, and lead in the water supply lines feeding the facility.

MPACT IF NOT PROVIDED: Prolonged degradation of the primary fire station will continue to cause poor morale and an inefficient operation. Continued lengthy response to the primary runway could lead to a catastrophic

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CAPE CANAVERAL AIR STATION, FLORIDA	REPLACE FIRE/CRASH RESCUE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31476	130-142	DBEH983001	7,800

event. Existing site conditions will continue to degrade, posing a health hazard to station personnel.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "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. Base Civil Engineer: Lt Col Christopher M. Hazen, (407)494-4041. Fire/Crash Rescue Station: 2,932 SM = 31,560 SF.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CAPE CANAVERAL AIR STATION, FLORIDA		
4. PROJECT TITLE REPLACE FIRE/CRASH RESCUE STATION		5. PROJECT NUMBER DBEH983001

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:

(a) Standard of Definitive Design - YES

(b) Where Design Was Most Recently Used - Peterson AFB, CO

(3) Design Allowance 39

(4) Construction Contract Award Date 02 Jun

(5) Construction Start 02 Aug

(6) Construction Completion 04 Jan

(7) Energy Study/Life-Cycle analysis was/will be performed NO

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
O&M SUPPORT	3400	2003	32.9
COMMUNICATIONS	3080	2003	170.2

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA	4. COMMAND AIR FORCE MATERIEL COMMAND		5. AREA CONST COST INDEX 0.82

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNI	CIV	
a. As of 30 Sep 00	1,294	5,698	6,016				55	276	370	13,709
b. End FY 2005	1,310	5,842	5,991				55	276	370	13,844

7. INVENTORY DATA $(000)

a. Total Acreage	453,594	
b. Inventory Totals as of: 30 Sep 00		465.460
c. Authorization Not Yet In Inventory:		43,558
d. Authorization Requested In this Program:		11,400
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		16,300
a. Remainina Deficiencv:		211,010
h. Grand Total:		747.728

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN START	STATUS CMP
390-915	Command and Control (C2) Test Operations Center	6,224 SM	$11,400		TURN KEY
		Total	$11,400		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

130-142	Consolidated Fire/Crash Rescue Station	2,788 SM	$5,000
141-165	Replace Explosive Ordnance Disposal Complex	1,183 SM	$3,000
730-441	Replace Training And Education Center	4,366 SM	$8,300

9c. Real Property Maintenance Backlog This Installation 12

10. Mission or Major Functions: Air Armament Center (AAC) which is responsible for development, acquisition, testing, deployment and sustainment of conventional and nuclear air-delivered weapons; a weapons test wing; an air base wing; an operational test wing; a fighter wing with F-l 5 aircraft; the Munitions Directorate of the Air Force Research Laboratory; and a space surveillance sauadron.

11. Outstandinq pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	11,000
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	COMMAND AND CONTROL (C2) TEST OPERATIONS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72806	390-915	FTFA023011	11,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C2 TEST OPERATIONS CENTER	SM	6,224		7,261
ADMINISTRATIVE	SM	4,494	1,057	(4,75(
LABORATORY	SM	1,590	1,366	(2,172
SCIF	SM	140	1,886	(264
ANTITERRORISM FORCE PROTECTION	SM	6,224	12	(75
SUPPORTING FACILITIES				2,96E
UTILITIES/PAVEMENTS/SITE IMPROVEMENTS	LS			(2,10(
COMMUNICATIONS SUPPORT/60 METER TOWER	LS			(50(
FIRE PUMP	EA	1	150,000	(15(
DEMOLITION	SM	1,820	120	(218
SUBTOTAL				10,229
CONTINGENCY (5.0%)				511
TOTAL CONTRACT COST				10,741
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				612
TOTAL REQUEST				11,353
TOTAL REQUEST (ROUNDED)				11,400

IO. Description of Proposed Construction: Three-story with concrete foundation/slab, masonry walls/steel frame, and metal roof. Includes sensitive compartmented information facility (SCIF), maintenance areas, mobile test equipment, covered test aircraft parking, and 60 meter communications tower. Demolish a facility (1,450 SM) and two trailers (185 SM each). Comply with DoD interim minimum force protection standard.

Air Conditioning: 780 KW

11. REQUIREMENT: 6,224 SM ADEQUATE: SM SUBSTANDARD: 5,579 SM

PROJECT: Command and control test operations center. (New Mission)

REQUIREMENT: A modern test operations test center is required to provide the capability to test and evaluate existing and future Command and Control (C2) systems, which are needed to insure the warfighters battlefield dominance through information superiority. The facility will provide a secure means of integerating and testing C2 software and hardware systems in a realistic environment, and establish connectivity with other battlefield components/configurations. Includes SCIF space, administrative space, secure laboratory to test the interoperability of C2 systems, and an antenna tower to support satellite and other communications equipment. Comply with DoD interim minimum force protection construction standard.

CURRENT SITUATION: The C2 development and testing program is currently conducted in six separate facilities scattered throughout the base. These facilities are inadequate to support current testing and will be further outdated as new test programs evolve. All facilities are well beyond their life expectancy and are insufficient in size and layout to accommodate the projected mission. The required interconnectivity between test and battle labs is minimal to nonexistent. In addition, the capability to integrate common core software architectures is limited by the availability of labs and SCIF space needed to perform the work. Currently, the various software architectures are being tested separately at the contractor plants. Test support personnel must go TDY to accomplish their tasks.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	COMMAND AND CONTROL (C2) TEST OPERATIONS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECTCOST ($000)
72806	390-915	FTFA023011	11,400

IMPACT IF NOT PROVIDED: If a modern facility with connectivity to other C2 organizations is not provided, Eglin will lack the capability to test the next generation classified C2 communications systems or participate in C2 exercises. Travel between scattered facilities will continue to waste manpower and money. The result will be a loss of C2 systems capability to the war-fighter.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "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, new construction was found to be the most cost efficient over the life of the project. Base Civil Engineer: Col Quincy D. Purvis, (850) 882-2876. Command and Control Test Operations Center: 6,224 SM = 66,970 SF. Design Build - Design Cost (4% of Subtotal Cost): $409,000.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE COMMAND AND CONTROL (C2) TEST OPERATIONS CENTER		5. PROJECT NUMBER FTFA023011

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	456
(4) Construction Contract Award Date	01 Nov
(5) Construction Start	02 Jan
(6) Construction Completion	03 Sep
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

1. COMPONENT AIR FORCE	FY2002 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HURLBURT FIELD, FLORIDA	4. COMMAND AIR FORCE SPECIAL OPERATIONS COMMAND	5. AREA CONST COST INDEX 0.82

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNI	CIV	
a. Asof 30 Sep 00	1,163	5,724	861		23		617	549	73	9,010
b. End FY 2005	1,151	5,443	848		22		617	549	73	8,703

7. INVENTORY DATA $(000)

a. Total Acreage	6,634	
b. Inventory Totals as of: 30 Sep 00		274.272
c. Authorization Not Yet In Inventory:		31,390
d. Authorization Requested In this Program:		0
e. Authorization Included In Following Program: (FY2003)		10,400
f. Planned in Next Four Program Years:		48.809
a. Remainina Deficiencv:		0
h. Grand Total:		364.871

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(000)	DESIGN START	STATUS CMP
131-111	Consolidated Communication Facility	2,520	SM	$4,000	Jun 01	Apr 02
722-351	Dining Facility/Fitness Center	2,600	SM	$6,400	TURN KEY	
			Total	$10,400		

9a. Future Projects: Included in the Following Program: (FY2003)

721-312	Dormitory	144	RM	$10,400
			Total	$10,400

3b. Future Projects: Typically Planned Next Four Years

130-835	ADAL Security Force Ops	1,168	SM	$1,480
214-425	823 RHS Vehicle Maintenance Facility	3,000	SM	$5,900
2 17-742	AFC2TIG Systems/Warrior School Complex	6,950	SM	$13,800
610-121	Vehicle Ops Admin Facility	966	SM	$2,280
721-312	Dormitory	120	RM	$9,326
721-312	Dormitory	144	RM	$10,115
730-l 42	Fire Station	1,700	SM	$2,370
842-245	Improve Water System	3,650	LM	$3,538

9c. Real Property Maintenance Backlog This Installation	36

10. Mission or Major Functions: Headquarters Air Force Special Operations Command; a special operations wing with AC-130/MC-130/MH-53/MH-60/UH-1 special operations squadrons; Air Force Special Operations School; a special tactics group; Air Force Command and Control Training & Innovation Group; a RED HORSE squadron; and the Air Force Combat Weather Center.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD, FLORIDA	CONSOLIDATED COMMUNICATION FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
22176	131-111	FTEV993035	4,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED COMMUNICATION FACILITY	LS			2,849
ALTER EXISTING FACILITY 90215 (3,348 SF)	SM	320	916	(293
FORCE PROTECTION (1%)	LS			(28
CONSOLIDATED COMM FACILITY	SM	2,200	1,149	(2,528
SUPPORTING FACILITIES				746
UTILITIES	LS			(308
PAVEMENTS	LS			(91
SITE IMPROVEMENTS	LS			(72
REALIGN HAMBY PLACE (1,050 LF)	LM	320	227	(73
DEMOLITION	SM	2,381	85	(202
SUBTOTAL				3,595
CONTINGENCY (5.0%)				180
TOTAL CONTRACT COST				3,775
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				215
TOTAL REQUEST				3,990
TOTAL REQUEST (ROUNDED)				4,000
EQUIPMENT FROM OTHER APPROPRIATIONS				(950)

10. Description of Proposed Construction: Concrete foundation and floor slab, concrete block exterior walls, structural steel frame and standing seam metal roof. Includes parking lot, back-up power, and fire protection, all utilities and necessary support. Alteration required on one existing facility 90215 and realignment of Hamby Place. Demolish four buildings for a total of 2,381 SM.

Air Conditioning: 210 KW

11. REQUIREMENT: 2,520 SM ADEQUATE: 320 SM SUBSTANDARD: 2,381 SM

PROJECT: Construct Consolidated Communication Center. (Current Mission)

REQUIREMENT: A properly configured and adequately sized facility is required to consolidate the 16th Communications Squadron's (16 CS) command section, administration, maintenance and equipment storage. This facility will consolidate a majority of the 16 CS requirements at one location and provide greater efficiency of operations supporting wing command and control systems and base wide area network systems. Other functional areas will include customer service, SCIF, conference rooms, electronic testing and repair labs, and the base LAN system server. Force protection measures will be incorporated to comply with minimum DoD force protection standards.

CURRENT SITUATION: The 16th Communications Squadron has various functions located in numerous facilities. Requirements to construct a new squadron operations facility and additions/alteration of the existing Base Network Control Center will be consolidated into this single project. The 16 CS is currently housed in a 44-year-old facility that was not designed as a communications facility. Different 16 CS functions were located in other older facilities across the base, as they became available. These older inadequate facilities hamper efficient operations and customer service by the 16 CS. Increases in personnel and increased storage requirements for organizational, team and personal equipment have exceeded space available in the existing facilities. There are no existing facilities on Hurlburt Field that can meet these requirements. There is inadequate

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HURLBURT FIELD, FLORIDA	4. PROJECT TITLE CONSOLIDATED COMMUNICATION FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
22176	131-111	FTEV993035	4,000

land available at the existing site for an addition to the existing facilities.

IMPACT IF NOT PROVIDED: Crowded conditions and inadequate facilities will continue to have a negative impact on customer service and squadron morale.

ADDITIONAL: This project does meet the criteria/scope specified in Part II of Militarty Handbook 1190, "Facility Planning and Design Guide" and Air Force Handbook 32-1084, "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. Force protection includes structural reinforcement of exterior walls and fully tempered insulated glass windows. IAW DoD Financial Management regulation 7000.14-R, Vol 2B, Chapter 6, Joint use construction has been considered. Unilateral construction is recommended based on the special operations mission to be performed in the facilities. Base Civil Engineer: Lt Col Boone; Phone 850-884-7701.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

HURLBURT FIELD, FLORIDA

4. PROJECT TITLE	5. PROJECT NUMBER
CONSOLIDATED COMMUNICATION FACILITY	FTEV993035

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	25-Jun-01
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	1 %
• (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	**240**
(b) All Other Design Costs	**120**
(c) Total	**360**
(d) Contract	**300**
(e) In-house	**60**
(4) Construction Contract Award Date	**02 Nov**
(5) Construction Start	03 Jan
(6) Construction Completion	04 Jan

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
EQUIPMENT	**3400**	**2003**	**950**

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD, FLORIDA	DINING FACILITY/FITNESS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27596	722-351	FTEV993024	6,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DINING FACILITY/FITNESS CENTER	LS			4,208
AIRMEN DINING HALL	SM	1,300	1,940	(2,522
FITNESS CENTER	SM	1.300	1.280	(1,664
ANTITERRORISM FORCE PROTECTION	LS			(22
SUPPORTING FACILITIES				1,550
UTILITIES	LS			(650
PAVEMENTS	LS			(450
SITE IMPROVEMENTS	LS			(350
WETLANDS MITIGATION	LS			(100
SUBTOTAL				5,758
CONTINGENCY (5.0%)				288
TOTAL CONTRACT COST				6,046
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				345
TOTAL REQUEST				6,391
TOTAL REQUEST (ROUNDED)				6,400

10. Description of Proposed Construction: Construct 2-story facility of concrete masonry walls with steel trusses and joist, concrete slab and footings. Functional areas include a 1,300 SM (611 pers) dining facility and a 1,300 SM fitness center with all necessary support. Antiterrorism force protection measures to include reinforced exterior walls and temperedglass. Wetlands mitigation also incorporated into project.

Air Conditioning: 40 KW

11. REQUIREMENT: 11,864 SM ADEQUATE: 9,264 SM SUBSTANDARD: SM

PROJECT: Construct dining/fitness facility. (Current Mission).

REQUIREMENT: Provide adequate facilities to support the host and tenant units located on the east side of Hurlburt Field. Includes a combined dining/fitness center to provide meal service to 823rd RED HORSE Civil Engineer Squdron, 23rd Special Tactics Squadron, 16th Helicopter Generation Squadron, 20th Special Operations Squadron, 16th Medical Group, and 10th Combat Weather Squadron personnel. The fitness center will be manned by 1 6SOW/SV staff and reserved for "active duty military personnel use only" during peak times. The facility will be centrally located between three new dormitories assigned to east-side personel. Antiterrorism force protection measures will be incorporated in accordance with the DoD interim minimum MILCON standard.

CURRENT SITUATION: The existing dining hall and fitness center are located on the West side of Hurlburt Field and are inadequate for assigned personnel. IAW AFI 32-1084, Table 16.17, Hurlburt Field is authorized 9,290 SM of fitness center and currently is 2,766 SM below standards. Likewise, there is a dining hall capacity deficiency of 611 seats per AFI 32-1084, Table 14.3a. AFSOC's mission-related fitness standards place a high demand on the fitness center. Flightline operations and personnel housing are split into fixed wing and rotary wing operations on opposite sides of the base, a road distance of over 2 miles. This mission operations concept and goal to increase mission effectiveness by providing key base operating support in close proximity to the east side users require a new facility.

IMPACT IF NOT PROVIDED: Facilities will not be in place to suppport Hurlburt Field East-side unit mission

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD, FLORIDA	DINING FACILITY/FITNESS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27596	722-351	FTEV993024	6,400

operations. Synchronization of this work is crucial to AFSOC's ability to support the US Special Operations mission. Personnel on the East side of Hurlburt Field (16 SOW rotary wing side, and dense tenant unit population) will be forced to use overcrowded messing and fitness facilities on the West side. Since many young enlisted personnel who will live in the new East side dormitories lack transportation, productivity will be lost in going between the East and West sides, disrupting mission essential work accomplishment.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide" as well as Air Force Handbook 32-1084 "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. Base Civil Engineer: Lt Col Tim Boone, 850-884-7701. Dining hall/fitness center: 2,600 SM = 27,980 SF.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	
HURLBURT FIELD, FLORIDA	
4. PROJECT TITLE	5. PROJECT NUMBER
DINING FACILITY/FITNESS CENTER	FTEV993024

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	192
(4) Construction Contract Award Date	01 Nov
(5) Construction Start	02 Jan
(6) Construction Completion	**03** Aug
(7) Energy Study/Life-Cycle analysis was/will be performed	NO

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

1. COMPONENT AIR FORCE	**FY2002**	**MILITARY CONSTRUCTION PROGRAM (computer generated)**	2. DATE
3. INSTALLATION AND LOCATION MACDILL AIR FORCE BASE, FLORIDA	4. COMMAND AIR MOBILITY COMMAND		5. AREA CONST COST INDEX **0.86**

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	**FNI**	CIV	OFF	FNI	CIV	OFF	**FNI**	CIV	
a. As of 30 Sep 00	**663**	**2,663**	**1,275**				**769**	**878**	**98**	**6,346**
b. End FY **2005**	**649**	**2,636**	1,265				769	**878**	**98**	**6,295**

7. INVENTORY DATA $1000)

a. Total Acreage	**5,767**	
b. Inventory Totals as of: 30 Sep 00		**238.172**
c. Authorization Not Yet In Inventorv:		26,490
d. Authorization Requested In this Program:		10,000
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		**22,437**
a. Remainina Deficiencv:		**200,200**
h. Grand Total:		497.299

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(OOO)	DESIGN START	STATUS CMP
61 O-284	Mission Planning Center, Ph 1	**2,885** SM	$10,000	NOV 99	MAY 01
		Total	$10,000		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

149-962	Air Traffic Control Tower/crash Fire Station	3,162 SM	$14,000
721-312	**Dormitory**	**144 RM**	**$8.437**

9c. Real Property Maintenance Backlog This Installation 110

10. Mission or Major Functions: An air refueling wing with a KC-l 35 squadron; tenets include US Special Operations Command and US Central Command.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	**2.600**

DD FORM 1390. 1 DEC 76 Previous editions are obsolete.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MACDILL AIR FORCE BASE, FLORIDA	MISSION PLANNING CENTER, PH 1

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	61 O-284	NVZR023705R1	10,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MISSION PLANNING CENTER	SM	3,066	1,534	4,703
SUPPORTING FACILITIES				4,263
UTILITIES & EMERGENCY BACKUP POWER	LS			(1,068
PAVEMENTS/FORCE PROTECTION	LS			(925
SITE IMPROVEMENTS/STRUCTURAL FILL	LS			(987
DEMOLITION	LS			(262
SCI SHIELDING/COMMUNICATIONS	LS			(1,021
SUBTOTAL				8,966
CONTINGENCY (5.0%)				448
TOTAL CONTRACT COST				9,415
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				537
TOTAL REQUEST				9,951
TOTAL REQUEST (ROUNDED)				10,000

10. Description of Proposed Construction: Construct facilities on concrete foundation, structural fill to raise structure above sea level, with masonry walls, tile roof, fire detection/suppresion system, HVAC, emergency power, associated site utilities, parking, force protection, perimeter security, grading and landscaping. Includes demolition of parking lots/roads and necessary support.

Air Conditioning: 100 KW

11. REQUIREMENT: 3,066 SM ADEQUATE: SM SUBSTANDARD: SM

PROJECT: Construct a Mission Planning Center. (Current Mission)

REQUIREMENT: An adequately sized, properly configured mission planning center is required to house conferences in direct support of the 6th Air Refueling Wing, Headquarters US Special Operations Command, Headquarters US Central Command, and other tenant units located at MacDill AFB. The center will accommodate large single events or simultaneous smaller meetings through a full complement of planning, seminar, and meeting rooms. Space is required for multi-conference rooms, audio/visual equipment rooms, storage, admin, and kitchen area for food preparation and dishwashing. An adequate planning center is essential to support two major commands and the 6th ARW operations.

CURRENT SITUATION: Currently there is no mission planning center on base that can accommodate meetings and conferences for over 50 people. Additionally, off base planning centers cannot provide the level of operational security necessary to conduct sensitive briefings/meetings. Off-base planning facilities are very expensive due to high demand for these type facilities in the Tampa Bay area.

IMPACT IF NOT PROVIDED: Lack of adequate on-base planning facilities will pose difficult security problems for conferences and meetings with sensitive information. Organizations will continue to hold conferences and meetings in expensive off-base facilities.

ADDITIONAL: This project meets the criteria/scope in Air Force Handbook 32-1084, “Facility Requirements”. A preliminary analysis of reasonable options for accomplishing this project was done. It indicates new construction is the only option that will meet the operational requirement. Because of this a full economic analysis was not performed. A certificate of exception has been prepared. BCE: Lt Col Jeffery Leptrone (813)

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MACDILL AIR FORCE BASE, FLORIDA	MISSION PLANNING CENTER, PH 1

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	61 O-284	NVZR023705R1	10,000

828-358. Mission Planning Center: 2,885SM = 31,054SF.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION

MACDILL AIR FORCE BASE, FLORIDA

1. PROJECT TITLE	5. PROJECT NUMBER
MISSION PLANNING CENTER, PH 1	NVZR023705R1

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	02-NOV-99
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	100%
• (d) Date 35% Designed.	09-NOV-00
(e) Date Design Complete	29-MAY-01
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	**600**
(b) All Other Design Costs	**550**
(c) Total	**1,150**
(d) Contract	**750**
(e) In-house	**400**
(4) Construction Contract Award Date	**01** Dec
(5) Construction Start	**02** Feb
(6) Construction Completion	**03** Feb

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TYNDALL AIR FORCE BASE, FLORIDA		4. COMMAND AIR EDUCATION AND TRAINING COMMAND	5. AREA CONST COST INDEX 0.86

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	587	2,788	1,695	37			84	20		5,211
b. End FY 2005	585	2,805	1,704	37			84	20		5,235

7. INVENTORY DATA $(OOO)

a. Total Acreage 28,824	
b. Inventory Totals as of: 30 Sep 00	268,012
c. Authorization Not Yet In Inventory:	41,433
d. Authorization Requested In this Program:	15,050
e. Authorization Included In Following Program: (FY2003)	0
f. Planned in Next Four Program Years:	16,144
g. Remaining Deficiency:	56,800
h. Grand Total:	397,439

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(000)	DESIGN START	STATUS CMP
211-177	F-22 Squad Ops/AMU and Hangar	5,055	SM	$12,000	Jun 01	Apr 02
211-179	F-22 Fuels System Maintenance Hangar	934	SM	$3,050	Jun 01	Apr 02
			Total	$15,050		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

111-111	Upgrade Air Field Pavements and Lighting	1	LS	$2,200
131-111	ADAL Communications Facility	3,039	SM	$5,300
721-312	Dormitorv	144	RM	$8.644

9c. Real Property Maintenance Backlog This Installation 37

10. Mission or Major Functions: A fighter training wing with three F-l 5 squadrons responsible for training all F-l 5 aircrews; Air Combat Command's Headquarters First Air Force, a weapons evaluation group, and Southeast Air Defense Sector; and the Air Force Civil Engineering Support Agency.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	20
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TYNDALL AIR FORCE BASE, FLORIDA	F-22 FUELS SYSTEM MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27219	211-179	XLWU013002	3,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-22 FUEL SYSTEM MAINT HANGAR	LS			1,660
FUEL SYSTEM MAINTENANCE HANGAR	SM	934	1,768	(1,651;
ANTITERRORISM/FORCE PROTECTION	SM	934	9	(8)
SUPPORTING FACILITIES				1,072
UTILITIES (12" WATER LINE)	LS			(175)
PAVEMENTS (TOW LANE AND ARTERIAL ROAD)	LS			(338;
SITE IMPROVEMENTS	LS			(80)
SPECIAL F-22 SECURITY REQUIREMENTS	LS			(154)
MAKE-UP/EXHAUST VENTILATION SYSTEM	LS			(175)
FUEL TANK STORAGE YARD	LS			(150)
SUBTOTAL				2,732
CONTINGENCY (5.0%)				137
TOTAL CONTRACT COST				2,868
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				163
TOTAL REQUEST				3,032
TOTAL REQUEST (ROUNDED)				3,050

10. Description of Proposed Construction: Fuels system maintenance hangar consisting of pre-cast concrete piers, reinforced concrete footings and slab. Exterior closure consists of split rib block and metal panels with a standing seam metal roof. Project includes fire suppression system, water storage, fuel tank storage yard and F-22 security features. Extended utilities will be required to reach this undeveloped site.

11. REQUIREMENT: 934 SM ADEQUATE: SM SUBSTANDARD: SM

PROJECT: Constuct a F-22 fuel systems maintenance hangar. (New Mission)

REQUIREMENT: Adequately sized, configured, and secure maintenance facility providing covered fuel systems maintenance space is required to support the beddown of the next generation, air superiority F-22 fighter at Tyndall AFB. The F-22 is designed with state of the art technology and composite materials to meet stealth mission requirements. Due to the classified mission of the F-22 and the quick burn rate of composite materials, the maintenance facility must have a controlled environment, fire protection and security provisions.

CURRENT SITUATION: The F-22 will eventually replace the F-15. Starting in FY03, F-22s will be delivered to Tyndall in a phased program for pilot training; however, the F-l 5 training mission will continue at near the same levels until the FY07/08 time frame and slowly decline thereafter. Since the F-15 mission will operate concurrent with the F-22 mission, the existing fuels maintenance hangar will be required for the F-l 5 mission. Presently, two F-l 5s are maintained in the existing facilty 50% of the time and one 30% of the time for an 80% occupancy rate. This facility will not accommodate an F-15 and F-22 at the same time due to the F-22s larger wingspan. Forecasts for the F-15 do not call for any reduction of the fuel maintenance hangar usage and as the airframe continues to age, utilization is expected to increase. Presently, there are no facilities on base that can be converted to support fuel system maintenance for the F-22.

IMPACT IF NOT PROVIDED: If this new facility is not constructed, and the existing facility is used for both F-l 5

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TYNDALL AIR FORCE BASE, FLORIDA	F-22 FUELS SYSTEM MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27219	211-179	XLWU013002	3,050

and F-22 maintenance, a major aircraft maintenance backlog will be created which will have a negative impact on the flying mission. Both pilot training programs will lag behind established training goals, and the Air Force will lose the ability to man both weapon systems.

ADDITIONAL: A preliminary analysis of reasonable options for accomplishing this project (status quo, add to and alter, and new construction) indicates there is only one option that will satisfy operational requirements, therefore, a full economic analysis was not performed. A certificate of exemption has been prepared. This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. Base Civil Engineer: Lt Col Arvil White III, (850)283-3283 F-22 Fuel Systems Maintenance Hangar: 934 SM = 10,050 SF

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TYNDALL AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE F-22 FUELS SYSTEM MAINTENANCE HANGAR		5. PROJECT NUMBER XLWU013002

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	29-Jun-01
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	1 %
• (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	183
(b) All Other Design Costs	92
(c) Total	275
(d) Contract	229
(e) In-house	46
(4) Construction Contract Award Date	02 May
(5) Construction Start	02 Jul
(6) Construction Completion	03 Jul

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TYNDALL AIR FORCE BASE, FLORIDA	F-22 SQUAD OPS/AMU AND HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27219	211-177	XLWU013001	12,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-22 SQUAD OPS/AMU AND HANGAR	SM	5,055	1,446	7,309
SQUADRON OPERATIONS	SM	1,337	1,271	(1,699)
AMU HANGAR	SM	3,718	1,498	(5,570)
ANTITERORRISM/FORCE PROTECTION	SM	5,055	8	(40)
SUPPORTING FACILITIES				3,575
UTILITIES	LS			(500)
PAVEMENTS	LS			(515)
SITE IMPROVEMENTS	LS			(300)
SPECIAL SECURITY FEATURES F-22	LS			(200)
REPLACE AIRCRAFT PARKING APRON	LS			(2,060)
SUBTOTAL				10,884
CONTINGENCY (5.0%)				544
TOTAL CONTRACT COST				11,429
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				651
TOTAL REQUEST				12,080
TOTAL REQUEST (ROUNDED)				12,000

10. Description of Proposed Construction: Maintenance hangar (4-bay) consisting of pre-cast concrete piers, reinforced concrete footings and slab. Exterior closure is split rib block and metal panels with a standing seam metal roof. Includes deluge fire suppression system in hangar area and wet pipe sprinkler sytstem in other areas. Project will demolish/relocate aircraft parking apron in way of construction.

Air Conditioning: 95 KW

11. REQUIREMENT: 5,055 SM ADEQUATE: SM SUBSTANDARD: SM

PROJECT: F-22 squadron operations/AMU hangar. (New Mission)

REQUIREMENT: Adequately sized, configured, and secure facility providing squadron operations, covered maintenace space and maintenance management space is required to support the beddown of the next generation, air superiority F-22 fighter at Tyndall AFB. The F-22 is designed with state of the art technology and composite materials to meet stealth mission requirements. Due to the classified mission of the F-22 and the quick burn rate of composite materials, the maintenance facility must have a controlled environment, fire protection and security provisions.

CURRENT SITUATION: The F-22 will replace the current F-15 aircraft. Starting in FY03, F-22s will be delivered to Tyndall in a phased program for pilot training; however, the F-15 training mission will continue at near the same evels until the FY07/08 time frame and slowly decline thereafter. In order to accommodate the initial F-22 :raining program, a new F-22 flying squadron will be established. Since the F-l 5 mission will operate concurrent with the F-22 mission, all existing squadron operations, aircraft maintenace units and hangar spaces will be 'equied for the F-15 mission. In addition, the classified mission of the F-22 dictates that facilities cannot be shared. Presently, there are no facilities on base that are available for conversion to F-22 maintenance operations.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TYNDALL AIR FORCE BASE, FLORIDA	F-22 SQUAD OPS/AMU AND HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27219	211-177	XLWU013001	12,000

IMPACT IF NOT PROVIDED: Tyndall will not be able to support this additive mission without a new consolidated operation/maintenance hangar. The F-22 pilot training program will be placed in jeopardy of not providing enough trained pilots to keep pace with the production of the Air Force's newest multi-roled weapon system.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary economic analysis comparing alternatives of new construction, revitalization, leasing and status quo operation indicated there is only one option that will satisfy operational requirements. Therefore, a full economic analysis was not performed. A certificate of exemption has been prepared. Base Civil Engineer: LtCol Arvil E. White III (850) 283-3283. F-22 Consolidated Squadron Ops/AMU Hangar: 5,055 SM = 54,392 SF

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TYNDALL AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE F-22 SQUAD OPS/AMU AND HANGAR		5. PROJECT NUMBER XLWU013001

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	25-Jun-01
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	1 %
• (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	**720**
(b) All Other Design Costs	**360**
(c) Total	1,080
(d) Contract	900
(e) In-house	180
(4) Construction Contract Award Date	**02** Jul
(5) Construction Start	**02** Sep
(6) Construction Completion	04 Jan

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA		4. COMMAND AIR MOBILITY COMMAND	5. AREA CONST COST INDEX 0.79

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNI	CIV	TOTAL
a. As of 30 Sep 00	1,002	4,210	7,196				5	14	1,431	23,858
b. End FY 2005	983	4,357	6,030				5	14	1,431	22,820

7. INVENTORY DATA $(000)

a. Total Acreage 8,722	
b. Inventory Totals as of: 30 Sep 00	784.347
c. Authorization Not Yet In Inventory:	35,739
d. Authorization Requested In this Program:	14,650
e. Authorization Included In Following Program: (FY2003)	0
f. Planned in Next Four Program Years:	71.802
a. Remainina Deficiencv:	181,050
h. Grand Total:	1,087,588

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(OOO)	DESIGN START	STATUS CMP
141-753	Replace KC-1 35 Squad Ops	4,520 SM	$7,800	AUG 00	AUG 02
179-511	Fire Training Facility	1 EA	$3,800	TURN KEY	
218-712	Large Item Aircraft Spt Equip Paint Fac	800 SM	$3,050	TURN KEY	
		Total	$14,650		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

3b. Future Projects: Typically Planned Next Four Years

130-142	Replace Fire/Crash Rescue Station	2,300 SM	$5,000
211-152	Consolidate Aircraft Maintenance Facility	3,800 SM	$6,000
211-159	Corrosion Control Depaint Facility	9,850 SM	$20,000
211-159	Corrosion Control Paint Facility	9,850 SM	$25,400
217-742	Combat Communications Squadron Operations	2,700 SM	$7,100
721-312	Dormitory	120 RM	$8,302

9c. Real Property Maintenance Backlog This Installation 117

10. Mission or Major Functions: Warner Robins Air Logistics Center which is responsible for logistics management, support and depot-level maintenance of systems including F-l 5, C-130, C-5, C-l 41, and U-2 aircraft, helicopters, missiles and remotely piloted vehicles; an air base wing; an air control wing; HQ Air Force Reserve Command; an Air Mobility Command air refueling group with KC-135 aircraft; an ACC combat communications group; a special operations flight with EC-137D aircraft; an Air National Guard bomb wing with B-1B aircraft; and an Air Force recruiting group.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	1

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	FIRE TRAINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
78056	179-511	UHHZ993021	3,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE TRAINING FACILITY	LS			2,300
SUPPORTING FACILITIES				1,120
UTILITIES	LS			(100
PAVEMENTS	LS			(160
SITE IMPROVEMENTS	LS			(90
DEMOLITION/RESTORATION	LS			(770
SUBTOTAL				3,420
CONTINGENCY (5.0%)				171
TOTAL CONTRACT COST				3,591
SUPERVISION, INSPECTION &OVERHEAD (5.7 %)				205
TOTAL REQUEST				3,796
TOTAL REQUEST (ROUNDED)				3,800

10. Description of Proposed Construction: Construct a fire training facility with aircraft mock-up and associated environmental and safety systems. Includes liquid propane gas storage tank, pumps, piping, storage system for fuel and water, lighting, fencing, access road, and all necessary utilities and site preparation. Demolish and remediate existing fire training pit site.

11. REQUIREMENT: 1 LS ADEQUATE: LS SUBSTANDARD: 1 LS

PROJECT: Fire Training Facility. (Current Mission)

REQUIREMENT: This is a Level I environmental compliance requirement. A new fire training facility is required o meet Clean Water Act requirements for ground water protection IAW 40 CFR 122. A live fire training facility using the latest gas burning technology and meeting all environmental and safety regulations is required. Live fire raining exercises, an FAA quarterly requirement, are required for fire fighters to maintain a high level of disaster .raining on associated mission assigned aircraft. An impermeable lining below the pit area is required to prevent contaminants from leaching into the ground and to prevent possible ground water contamination.

CURRENT SITUATION: The existing Robins AFB fire training pit is currently located on an environmentally contaminated area. The facility does not have an impermeable lining below the pit nor are the fuel nozzles all capable of using propane gas. Because of this, the base fire department has a limited environmentally safe live 'ire training area.

MPACT IF NOT PROVIDED: Fire fighting crews will not be able to meet Air Force and FAA quarterly training 'equirements for remaining proficient in aircraft crash fire fighting and rescue techniques, and thus will not meet heir readiness requirements. The safety of both the fire fighter and aircraft accident victims will continue to be compromised by the lack of proper training. Travel to other installations to conduct fire training exercises is not easible because of the high cost and the level of manning required to remain at the installation to support the base mission.

ADDITIONAL: This project does meet the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. Base Civil Engineer: Col Michael D. Norrie, (912) 926-3093. Design Build - Design Cost (4% of Subtotal Cost: 6136,000.)

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE -IRE TRAINING FACILITY		5. PROJECT NUMBER UHHZ993021

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	152
(4) Construction Contract Award Date	01 Nov
(5) Construction Start	02 Jan
(6) Construction Completion	03 Apr
(7) Energy Study/Life-Cycle analysis was/will be performed	NO

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	LARGE ITEM AIRCRAFT SPT EQUIP PAINT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72896	218-712	UHHZ963006	3,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
LARGE ITEM ACFT SUPPORT EQUIPMENT PAINT FAC	SM	800	2,480	1,984
SUPPORTING FACILITIES				765
UTILITIES	LS			(256)
PAVEMENTS	LS			(200)
SITE IMPROVEMENTS	LS			(75)
OVERHEADCRANES	EA	2	85.000	(170)
FIRE PUMP (2500 GPM)	LS			(70)
SUBTOTAL				2,749
CONTINGENCY (5.0%)				137
TOTAL CONTRACT COST				2,886
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				165
TOTAL REQUEST				3,051
TOTAL REQUEST (ROUNDED)				3,050

10. Description of Proposed Construction: Concrete footings and floor slab, structural steel frame, insulated metal panels and roof with clear height of 50 feet, air emission control, HVAC, fire protection systems, bridge cranes, fire pump, and all necessary support.

Air Conditioning: 40 KW

11. REQUIREMENT: 800 SM ADEQUATE: SM SUBSTANDARD: SM

PROJECT: Large item aircraft support equipment paint facility. (Current Mission)

REQUIREMENT: A fully enclosed, environmentally controlled high bay facility is required for painting tail stands, wing platforms, and other large aircraft support equipment (ASE) used in performing depot maintenance of large military aircraft. This project is needed to comply with air pollution limits to Georgia Permit 9711-076-101 53 as regulated under Georgia Air Quality Regulation 391-3-I -.03, and meet emission standards defined by Georgia Air Quality Regulation 391-3-I -.02(2)(a) pertaining to protection of personnel and the environment. Functional aircraft support equipment is essential in depot maintenance operations. All equipment needs to be stripped of paint, repaired as necessary and repainted periodically for safety. One-fifth of the inventory is painted annually. Some tail stands require at least 50 feet of vertical clearance.

CURRENT SITUATION: Robins AFB does not have a facility for stripping and painting of large aircraft support equipment. Stripping (sandblasting) and painting operations normally performed outdoors were stopped due to environmental reasons. Suspension of this outdoor operation has created a tremendous backlog of ASE. Continued outdoor stripping and painting would have placed the base in violation of air quality standards and permit conditions.

IMPACT IF NOT PROVIDED: Inability to perform corrosion control on large aircraft support equipment will continue to provide a negative impact on depot maintenance of major aircraft systems like the F-I 5, C-I 30 and C141. Lack of corrosion control will significantly decreases the life expectancy of aircraft support equipment.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An economic analysis has been prepared comparing the alternatives of new construction, contracting out, and status quo operation. Based on the net present values and benefits of the respective

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	LARGE ITEM AIRCRAFT SPT EQUIP PAINT FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72896	218-712	UHHZ963006	3,050

alternatives, new construction was found to be the most cost efficient over the life of the project. The requirement for this project was validated by the Joint-Service Depot Maintenance Industrial Military Construction Review on 20 May 1998. Base Civil Engineer: Col Michael Norrie, (912) 926-3093. Large Item Aircraft Support Equipment Paint Facility: 800SM = 8,608SF. Design Build - Design Cost (4% of Subtotal Cost): $110,000."

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE LARGE ITEM AIRCRAFT SPT EQUIP PAINT FAC		5. PROJECT NUMBER UHHZ963006

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	122
(4) Construction Contract Award Date	01 Nov
(5) Construction Start	02 Jan
(6) Construction Completion	**03** Jul
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	REPLACE KC-I 35 SQUAD OPS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	141-753	UHHZ003006	7.800

9. COST ESTIMATES

ITEM	UIM	QUANTITY	UNIT COST	COST ($000)
<C-I 35 SQUADRON OPS/AMU	LS			5,689
SQUADRON OPERATIONS/AMU	SM	3,800	1,220	(4,636)
HQ FACILITY	SM	720	1,463	(1,053)
SUPPORTING FACILITIES				1,295
UTILITIES	LS			(400)
PAVEMENTS	LS			(436)
SITE IMPROVEMENTS	LS			(228)
ELEVATOR	EA	1	110,000	(110)
DEMOLITION (PAVEMENT)	SM	4,000	25	(100)
ANTI TERRORISM PHYSICAL SECURITY	SM	4,520	6	(27
SUBTOTAL				6,984
CONTINGENCY (5.0 %)				349
TOTAL CONTRACT COST				7,334
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				418
TOTAL REQUEST				7,754
TOTAL REQUEST (ROUNDED)				7.800

0. Description of Proposed Construction: 10. Description of Proposed Construction: Two-story facility with oncrete foundation , masonry walls, structural steel frame, sloping roof system, fire protection system, elevator, larking, and sidewalks. Includes demolition/relocation of approximately 4000 square meter parking lot area. ncludes AT/FP physical security IAW DOD minimum construction standards.

ir Conditioning: 375 KW

II. REQUIREMENT: 4,520 SM ADEQUATE: SM SUBSTANDARD: 3,849 SM

PROJECT: Construct a KC-135 Sq Ops/AMU/Group Headquarters Facility. (New Mission)

REQUIREMENT: This project is required to consolidate Air Mobility Command operational squadrons by ollocating HQ with aircraft operators and air maintainers. The consolidation relocates flyers and maintainers out f undersized and dispersed facilities into a functional and adequately sized structure. Space required for Ops/AMU/HQ management support, briefing/debriefing, flight planning, training and testing, flying/ground safety, ool rooms, bench stock, mobility office, technical order library, life support, standardization/evaluation, locker ooms, and scheduling. Additionally, an elevator is required to comply with the 1990 Americans with Disabilities ct (ADA). This consolidation is consistent with the Air Mobility Command initiative to bring Sq Ops/AMU/HQ acilities up to mission tasking rates.

CURRENT SITUATION: HQ 19th ARG, squadron operations and aircraft maintenance units are dispersed mong four facilities. This physical separation creates fragmented lines of communication and authority. ircrews and maintenance personnel must spend many hours away from their duty location in an effort to obtain arts, organizational and mobility equipment, and required training. The existing maintenance facilities were riginally constructed in 1960. These facilities are inadequately sized and not properly configured to house the nified squadrons supporting the KC-l 35s. One substandard parking lot will be demolished/relocated as part of his project.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	REPLACE KC-135 SQUAD OPS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	141-753	UHHZ003006	7,800

IMPACT IF NOT PROVIDED: HQ, operations, maintenance, and support personnel will remain in severely undersized and physically separated buildings and will not develop the cohesiveness necessary to become an efficient and effective operational 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 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. Force protection measures will be incorporated IAW USAF Installation Force Protection Guide. BASE CIVIL ENGINEER: Col Norrie, (912) 926-5820 Ext 113. KC-135 Squadron Operations/Aircraft Maintenance/HQ Facility: 4,520 SM = 48,650 SF

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE REPLACE KC-135 SQUAD OPS		5. PROJECT NUMBER UHHZ003006

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	08-AUG-00
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	**35 %**
• (d) Date 35% Designed.	15-DEC-00
(e) Date Design Complete	30-SEP-01
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	**468**
(b) All Other Design Costs	**234**
(c) Total	**702**
(d) Contract	**585**
(e) In-house	117
(4) Construction Contract Award Date	01 Oct
(5) Construction Start	01 Dec
(6) Construction Completion	**03** Jul

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MOUNTAIN HOME AIR FORCE BASE, IDAHO		4. COMMAND AIR COMBAT COMMAND	5. AREA CONST COST INDEX 1.11

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	462	4,009	745				18	32	71	5,337
b. End FY 2005	462	4,201	744				18	32	71	5,528

7. INVENTORY DATA $(000)

a. Total Acreage	6,844	
b. Inventory Totals as of: 30 Sep 00		**350.515**
c. Authorization Not Yet In Inventorv:		49,035
d. Authorization Requested In this Program:		0
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		15.400
g. Remaining Deficiency:		57,600
h. Grand Total:		472,550

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(OOO)	DESIGN START	STATUS CMP
113-321	Replace Aircraft Parking Apron	**72,500**	SM	$14,600	Jun 01	Apr 02
			Total	$14,600		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

442-758	Base Supply Warehouse	**8,007**	SM	$10,600
740-674	ADAL Fitness Center	**3,334**	SM	**$4,800**

9c. Real Property Maintenance Backlog This Installation **23**

10. Mission or Major Functions: A composite wing with one F-16 squadron: one F-l 5 C/D squadron, one F-l 5E souadron, one KC-135R sauadron, a B-l B sauadron, and the AEF Battlelab.

11. Outstandinq pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MOUNTAIN HOME AIR FORCE BASE, IDAHO	REPLACE AIRCRAFT PARKING APRON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
22176	113-321	QYZH003009	14,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPAIR AIRCRAFT PARKING APRON	SM	72,500	140	10,150
SUPPORTING FACILITIES				2,737
PAVEMENT DEMOLITION	SM	72,485	35	(2,537:
UTILITIES	LS			(150'
GROUND RODS	LS			(50
SUBTOTAL				12,887
CONTINGENCY (5.0%)				644
TOTAL CONTRACT COST				13,531
SUPERVISION, INSPECTION &OVERHEAD (5.7 %)				771
TOTAL REQUEST				14,303
TOTAL REQUEST (ROUNDED)				14,600

10. Description of Proposed Construction: Remove 4" asphaltic cement concrete, 8" of portland cement concrete and 8" of base material. Replace with new base material and 18" of portland cement concrete. Includes site work, pavement markings, ground rods, and all necessary utilities and support. Demolish 72,500 SM of pavement.

11. REQUIREMENT: 72,500 SM ADEQUATE: SM SUBSTANDARD: 72,500 SM

PROJECT: Replace Aircraft Parking Apron. (Current Mission)

REQUIREMENT: An aircraft parking apron is required for the parking of airlift and transient aircraft in support of the wing's mobility mission and the Air Expeditionary Force (AEF) concept.

CURRENT SITUATION: The pavement condition survey rates the current apron as unsatisfactory; the pavement has failed. The parking apron is stressed to the point that any aircraft with a heavier footprint than a C-9 must be parked on adjacent stressed ramps or at the Live Ordnance Loading Area (LOLA)/Hot Cargo Pad which is located approximately two miles from the transient and mobility ramps. Large aircraft, such as C-5, C-141, C-I 7, KC-I 0, 747, and L1011 used to transport equipment and personnel, cannot be parked in the LOLA when explosive loaded aircraft are present. The use of the LOLA is extremely limited due to munitions safety, aircraft refueling, and security requirements. To park on an adjacent ramp, a squadron of F-I 5s and several KC-1 35R tankers must be relocated. Aircraft weight combined with pavement weakness, saturation of fuel, oil and hydraulic fluids along with cracking and deterioration have made this area hard to manage safely. During the summer months, the asphalt softens such that a fuel laden F-I 5 or F-I 6 cannot be parked in excess of a couple hours before the tires begin sinking into the surface. The cracking surface continually generates foreign object damage (FOD) that can cause both aircraft tire and engine damage. When a cargo-sized aircraft is delayed due to reasons other than cargo/passengers, inbound transient aircraft must be delayed or diverted due to the lack of an adequate parking area.

IMPACT IF NOT PROVIDED: The lack of adequate parking aprons severely impacts the wing's mission capability to deploy. The lack of adequate parking in summer forces the Transient Alert personnel to spread visiting fighter aircraft among several parking ramps, increasing their workload. Aircraft servicing is hampered by transporting personnel, equipment and fuel over long distances. The impending FOD damage to tires and engines could result in the loss of a valuable aircraft and aircrew.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." All known alternative options were considered during the development of this project. No other

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MOUNTAIN HOME AIR FORCE BASE, IDAHO	REPLACE AIRCRAFT PARKING APRON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
22176	113-321	QYZH003009	14,600

option could meet the mission requirements: therefore, no economic analysis was needed or performed, therefore a certificate of exception was prepared. Base Civil Engineer: Lt Col Richard B. Stonestreet, 208-828-6353; Repair Aircraft Parking Apron: (72,500 SM = 780,100 SF)

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MOUNTAIN HOME AIR FORCE BASE, IDAHO		
4. PROJECT TITLE REPLACE AIRCRAFT PARKING APRON		5. PROJECT NUMBER QYZH003009

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	25-Jun-01
(b) Parametric Cost Estimates used to develop costs	YES
. (c) Percent Complete as of Jan 01	1 %
* (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	NO
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	876
(b) All Other Design Costs	438
(c) Total	1,314
(d) Contract	1,095
(e) In-house	219
(4) Construction Contract Award Date	02 Jul
(5) Construction Start	02 Aug
(6) Construction Completion	04 Jul

. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	**FY2002**	MILITARY CONSTRUCTION **PROGRAM (computer generated)**	2. DATE
3. INSTALLATION AND LOCATION ANDREWS AIR FORCE BASE, MARYLAND		4. COMMAND AIR MOBILITY COMMAND	5. AREA CONST COST INDEX 0.89

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNI	CIV	
a. As of 30 Sep 00	1,054	**3,834**	**2,477**	10	19		**334**	1,101	**462**	9,291
b. End FY **2005**	1,046	3,469	2,497	**6**	19		**334**	1,101	**462**	**8,934**

7. INVENTORY DATA $(000)

a. Total Acreage	4,996	
b. Inventory Totals as of: 30 Sep 00		477.321
c. Authorization Not Yet In Inventorv:		5,163
d. Authorization Requested In this Program:		19,420
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		**8.488**
a. Remainina Deficiencv:		90,700
h. Grand Total:		601,092

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN START	STATUS CMP
111-111	Repair East Runway	94,375 SM	**$7,600**	JUL 01	DEC 01
141-753	Consolidate Squadron Operations Facility	0	$10,070	OCT 99	MAY 01
179-511	Upgrade Fire Training Facility	1 EA	$1,750	JAN 96	MAR 97
		Total	$19,420		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

61 O-284	Upgrade Wg Hq, Ph 1	10,219 SM	**$8,488**

9c. Real Property Maintenance Backlog This Installation 141

10. Mission or Major Functions: An airlift wing flying **a** variety of fixed wing and rotary aircraft responsible for Presidential support and support of other branches of the Armed Forces and Federal Agencies; Air National Guard Readiness Center; DC Air National Guard F-16 fighter wing; and an Air Force Reserve Command C-141 airlift wing.

11. Outstandinq pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	CONSOLIDATE SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	141-753	AJXF993009	10,070

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SQUADRON OPERATIONS FACILITY	SM	4,050	1,456	5,897
SUPPORTING FACILITIES				3,151
UTILITIES	LS			(385
PAVEMENTS	LS			(445
SITE IMPROVEMENTS	LS			(380
DEMOLITION/ASBESTOS REMOVAL	SM	1,250	220	(275
STORMWATER/EROSION/CONTAMINATED SOIL	CM	8,100	160	(1,296
ELEVATOR	LS			(100
COMMUNICATIONS SUPPORT	LS			(270
SUBTOTAL				9,048
CONTINGENCY (5.0%)				452
TOTAL CONTRACT COST				9,500
SUPERVISION, INSPECTION & OVERHEAD (6 %)				570
TOTAL REQUEST				10,070
TOTAL REQUEST (ROUNDED)				10,070

10. Description of Proposed Construction: Three-story facility with concrete foundation, masonry walls with exterior brick veneer, sloped roof system, fire protection system, utilities, elevator, asbestos removal, stormwater controls, and necessary support. Demolish one facility (1,250 SM)

Air Conditioning: 80 KW

11. REQUIREMENT: 4,050 SM ADEQUATE: SM SUBSTANDARD: 2,442 SM

PROJECT: Construct a squadron operations facility. (Current Mission)

REQUIREMENT: An adequately sized and configured squadron operations facility is required to support three flying squadrons. Space is required for operations management support, briefing/debriefing, flight planning, training and testing, flying/ground safety, 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 squadron operations facilities up to minimum Air Force standards.

CURRENT SITUATION: There are no adequate squadron operation facilities at Andrews AFB. Currently, squadron operations functions are in three scattered undersized facilities, and life support functions are located in two additional facilities. The widely scattered functions create fragmented lines of communications and authority.

IMPACT IF NOT PROVIDED: Operations and life support will remain in inadequate, physically separated facilities and will not develop the cohesiveness necessary to become an efficient and effective operational organization. The physical separation will continue to hamper the lines of authority and communications throughout the squadrons.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An economic analysis has been prepared comparing alternatives of new construction, alteration, and status quo. Based on the net present values and benefits of the respective alternatives, new construction

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	CONSOLIDATE SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	141-753	AJXF993009	10,070

was found to be the most cost-effective over the life of the project. BASE CIVIL ENGINEER: Col Edward Pokora, (301) 981-7281. Squadron Operations Facility: 4,050 SM = 43,594 SF

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANDREWS AIR FORCE BASE, MARYLAND		
4. PROJECT TITLE CONSOLIDATE SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER AJXF993009

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	1 O-OCT-99
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	100%
• (d) Date 35% Designed.	24-JAN-01
(e) Date Design Complete	11 -MAY-O1
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	**604**
(b) All Other Design Costs	**302**
(c) Total	**906**
(d) Contract	**755**
(e) in-house	**151**
(4) Construction Contract Award Date	**02** Jan
(5) Construction Start	02 Mar
(6) Construction Completion	**04** Feb

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	REPAIR EAST RUNWAY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	111-111	AJXF023002	7,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPAIR RUNWAY	SM	54,255	95	5,168
SUPPORTING FACILITIES				1,666
DEMO PAVEMENT	LS			(364
SPALL REPAIR, JOINT SEAUCRACK SEAL	LS			(378
EAST RUNWAY EDGE LIGHTING	LS			(924
SUBTOTAL				6,834
CONTINGENCY (5.0%)				342
TOTAL CONTRACT COST				7,175
SUPERVISION, INSPECTION & OVERHEAD (6 %)				431
TOTAL REQUEST				7,606
TOTAL REQUEST (ROUNDED)				7,600

IO. Description of Proposed Construction: Construct 35' wide shoulders along east runway. Repair work to nclude overruns and construction of textile arresting system mounting pads, Nav-Aid roads, installing electrical :onduit and repair of Taxiway E-4. Also, includes repair of BAK-12 pad and widening shoulder of Taxiways: S/C/h)f the west runway connecting the east runway. Replace east runway lighting. Resurface and groove the unway."

11. REQUIREMENT: SM ADEQUATE: SM SUBSTANDARD: SM

PROJECT: Repair East Runway

REQUIREMENT: Project is required to bring this deteriorated runway up to safe standards necessary to accommodate large aircraft and to meet Air Force standards.

CURRENT SITUATION: The east taxiway is devoid of shoulders causing the large aircraft (747s/Air Force One) o overlap the grassy area. This condition causes dangerous FOD and on more than one occasion has required sngthy cleanup due to the asphalt being ripped from the taxiway during aircraft take-off.

MPACT IF NOT PROVIDED: If repair is not accomplished in the very near future possible aircraft damage due to FOD is likely to occur. Runway will continue to deteriorate until it requires complete shutdown.

ADDITIONAL: Risk Assessment Code (RAC) 2 (II. B) applies. Hazard Description: The East shoulder of the iast Runway exhibits signs of erosion. Associated with this erosion are loose rocks of significant size. Additionally, the intersection of Taxiway E-4 and the East Runway exhibits loose gravel. Currently the runway operates on a waiver because of this deficiency. Without a paved shoulder surface the potential for Foreign Object Damage (FOD) to aircraft is high. This could jeopardize safety, and mission accomplishment. Lt Col David C. Howe, (301)981-3430. Repair East Runway 54,255 SM = 584,000 SF

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANDREWS AIR FORCE BASE, MARYLAND		
4. PROJECT TITLE REPAIR EAST RUNWAY		5. PROJECT NUMBER AJXF023002

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	10-JUL-01
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	1 %
* (d) Date 35% Designed.	30-SEP-01
(e) Date Design Complete	30-DEC-01
(f) Energy Study/Life-Cycle analysis was/will be performed	NO
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	456
(b) All Other Design Costs	228
(c) Total	684
(d) Contract	570
(e) In-house	114
(4) Construction Contract Award Date	02 Feb
(5) Construction Start	02 Apr
(6) Construction Completion	03 Aug

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	UPGRADE FIRE TRAINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41856	179-511	AJXF023003	1,750

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER FIRE TRAINING FACILITY	LS			76
AIR FRAME MODIFICATIONS	LS			(54
CONTROL STAND MODIFICATIONS	LS			(22
SUPPORTING FACILITIES				1,516
UTILITIES	LS			(480
ENV REMEDIATION/SOIL CONTAMINATION	CM	4,031	174	(701
SITE IMPROVEMENTS/ACCESS ROAD	LS			(335
SUBTOTAL				1,592
CONTINGENCY (5.0%)				80
TOTAL CONTRACT COST				1,672
SUPERVISION, INSPECTION & OVERHEAD (6 %)				100
TOTAL REQUEST				1,772
TOTAL REQUEST (ROUNDED)				1.750

IO. Description of Proposed Construction: Modification to existing aircraft frame and control stand roof and stairs. Connection of electrical power. Hazardous material removal and disposal, widen circle drive, and construction of access road to flightline.

11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS

PROJECT: Upgrade fire training facility. (Current Mission)

REQUIREMENT: This is an Environmental Level 1 compliance project. This project modifies the air frame and control stand to make the FY94 facility usable. The project also accomplishes required environmental emediations. Constructs a fire access road to provide firefighters direct access to the flightline to meet required esponse times.

CURRENT SITUATION: A FY94 JP-8 fuel Fire Training Facility (FTF) project was initially authorized and appropriated at $1 .OM. This project was reprogrammed along with eighteen FY93 and three FY94 FTFs at various locations in August 1994 at $1.4M. The reprogramming action was required to construct environmentally safe propane live-fire training, in lieu of the JP-8 FTFs. Due to environmental contamination at the construction site, safety modifications, and redesign costs, all identified after contract award, the working estimate escalated to $3.0M. As a result of the delays associated with defining the safety modifications, environmental equirements, and a finalized redesign/contract negotiation, a reprogramming could not be accomplished prior to he expiration of the FY94 funds. There are no environmentally approved FTFs in the local area, necessitating fire ighters to travel long distances to keep proficiency.

MPACT IF NOT PROVIDED: The new facility will remain unusable in its present state, wasting Air Force esources. Firefighters will lose proficiency in combating live fires without the realism that comes only with live-re training.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility lequirements." Base Civil Engineer: Lt Col Dave Howe, (301)981-3430. Environmental Remediation/Soil Contamination 4,031 CM = 142,350 CF

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANDREWS AIR FORCE BASE, MARYLAND		
I. PROJECT TITLE JPGRADE FIRE TRAINING FACILITY		5. PROJECT NUMBER AJXF023003

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	01 -JAN-96
(b) Parametric Cost Estimates used to develop costs	YES
. (c) Percent Complete as of Jan 01	100 %
. (d) Date 35% Designed.	01 -JUL-96
(e) Date Design Complete	01 -MAR-97
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	YES
(b) Where Design Was Most Recently Used -	GRAND FORKS AFB, ND
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	1,018
(b) All Other Design Costs	185
(c) Total	1,203
(d) Contract	925
(e) In-house	278
(4) Construction Contract Award Date	01 Dec
(5) Construction Start	02 Mar
(6) Construction Completion	03 Mar

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE, MASSACHUSETTS	4. COMMAND AIR FORCE MATERIEL COMMAND	5. AREA CONST COST INDEX 1.12

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNL	CIV	
a. As of 30 Sep 00	844	606	3,610				388	823	al	6,352
b. End FY 2005	838	614	3,572				388	823	al	6,311

7. INVENTORY DATA $(000)

a. Total Acreage	846	
b. Inventor-y Totals as of: 30 Sep 00		252.483
c. Authorization Not Yet In Inventorv:		36,610
d. Authorization Requested In this Program:		9,400
e. Authorization Included In Following Program: (FY2003)		6,900
f. Planned in Next Four Program Years:		0
a. Remainina Deficiencv:		116,700
h. Grand Total:		422,093

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN START	STATUS CMP
317-315	Renovate Acquisition Management Facility, Phase III	5,769 SM	$9,400		TURN KEY
		Total	$9,400		

9a. Future Projects: Included in the Following Program: (FY2003)

740-674	Add/Alter Fitness Center	3,595 SM	$6,900
		Total	$6,900

9b. Future Projects: Typically Planned Next Four Years No Projects

9c. Real Property Maintenance Backlog This Installation 26

10. Mission or Major Functions: The Electronic Systems Center provides the latest in command and control and information systems for various weapons platforms including the E-3 AWACS and E-8 Joint STARS; an Air Force Research Laboratory research site location for the space vehicles directorate; an air base wing; a recruiting group; and an aerial port squadron.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HANSCOM AIR FORCE BASE, MASSACHUSETTS	RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE III

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	317-315	MXRD993004	9.400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
RENOVATE ACQUISITION MANAGEMENT FAC, PH III	SM	5,769		6,39
ADMINISTRATIVE MEZZANINE	SM	1,890	1,305	(2,466
LABORATORY	SM	1,100	1,188	(1,307
ADMINISTRATIVE	SM	2,779	920	(2,557
ANTITERRORISM FORCE PROTECTION	SM	5,769	12	(69
SUPPORTING FACILITIES				2,10
UTILITIES	LS			(750
PAVEMENTS	LS			(675
SITE IMPROVEMENTS	LS			(575
COMMUNICATIONS SUPPORT	LS			(100
SUBTOTAL				8,499
CONTINGENCY (5.0 %)				425
TOTAL CONTRACT COST				8,924
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				509
TOTAL REQUEST				9,433
TOTAL REQUEST (ROUNDED)				9,400
EQUIPMENT FROM OTHER APPROPRIATIONS				(2,000

IO. Description of Proposed Construction: Renovate a portion of existing facility #1614 including all demolition, utilities, fire protection/detection systems, asbestos removal, communications, site work, handicapped accessibility, landscaping and all other required supporting facilities. Comply with DoD interim minimum force protection construction standard.

Air Conditioning: 825 KW

11. REQUIREMENT: 19,318 SM ADEQUATE: 13,549 SM SUBSTANDARD: 5,769 SM

PROJECT: Renovate Acquistion Management Facility Phase III. (Current Mission)

REQUIREMENT: The Electronics System Center (ESC) has developed a plan to consolidate System Program Offices (SPO's) within an Acquisition Campus on Hanscom AFB. This project provides for the relocation of the final 240 personnel from off-base leased facilities. Such action will result in an annual reduction of approximately $1.35M in lease costs and an anticipated additional annual savings of $85,000 derived from eliminating inefficiencies and expense of travel cost and lost time required to travel from off base facilities. The organizations support critical programs that are responsible for developing and fielding information warfare systems for the joint services and Air Force Command and Control (C2). Comply with DoD interim minimum force protection construction standard.

CURRENT SITUATION: The facility (81614) was originally constructed in 1955 as a Commissary. The interior architectural layout is as orignally constructed and consists of large open storage areas and administration areas. The facility does not have sufficient HVAC and electrical capacity to support contemporary electronic equipment. The facility contains asbestos and does not meet Life Safety Code requirements for Acquisition Management facilities. Further, ESC must pay Federal Contract Research Center (FCRC) overhead for personnel located in off base FCRC facilities seven miles away. Overhead costs are expensive and the physical separation of ESC functions creates organizational inefficiencies.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HANSCOM AIR FORCE BASE, MASSACHUSETTS	RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE III

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	317-315	MXRD993004	9,400

IMPACT IF NOT PROVIDED: The Electronic System Center will continue to pay expensive lease costs. With the continual reductions in DoD manpower and budgets, the lost productivity generated by personnel required to travel in support of SPO related activities would have an impact on present and future acquisition costs and potentially the ability to deliver systems on schedule.

ADDITIONAL: This project is the third phase of a three phase effort to renovate building #1614 for acquisition management. This project meets the criteria/scope specified in the Air Force Handbook 32-1084, "Facility Requirements." An economic analysis has been prepared comparing the alternate 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. Base Civil Engineer: Lt Col Thomas J. Schluckebier, (781) 377-3526. Renovate Acquisition Management Facility, Phase III: 5,769 SM = 62,074 SF. Design Build - Design Cost (4% of Subtotal Cost): $340,000. " "

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE, MASSACHUSETTS		
4. PROJECT TITLE RENOVATE ACQUISITION MANAGEMENT FACILITY, PHASE III		5. PROJECT NUMBER MXRD993004

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	376
(4) Construction Contract Award Date	01 Dec
(5) Construction Start	02 Jan
(6) Construction Completion	03 Jan
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
Pre-wired Workstations	3400	2004	1900
Communications Cable/Equipment	3400	2004	100

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KEESLER AIR FORCE BASE, MISSISSIPPI	4. COMMAND AIR EDUCATION AND TRAINING COMMAND		5. AREA CONST COST INDEX 0.89

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNL	CIV	OFF	FNI	CIV	OFF	FNI	CIV	
a. As of 30 Sep 00	860	3,226	2,740	450	2,909		78	1,680	84	12,027
b. End FY 2005	847	2,763	2,739	439	2,819		78	1,680	84	11,449

7. INVENTORY DATA $(000)

a. Total Acreage	1,611	
b. Inventory Totals as of: 30 Sep 00		388.669
c. Authorization Not Yet In Inventory:		154,055
d. Authorization Requested In this Program:		28,600
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		34,336
a. Remainina Deficiencv:		247,706
h. Grand Total:		853.366

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(OOO)	DESIGN START	STATUS CMP
171-623	Replace Tech Training Fac Ph 2A	13,150	SM	$28,600	Jun 01	Apr 02
			Total	$28,600		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

721-312	Dormitory	120	RM	$7,593
721-312	Replace Student Dormitory	200	RM	$24,243
740-884	Child Development Center	1,303	SM	$2,500

9c. Real Property Maintenance Backlog This Installation 69

10. Mission or Major Functions: Headquarters Second Air Force; a training wing responsible for communications, electronics, and administrative courses and a C-12/C-21 airlift squadron responsible for aircrew training; an Air Force Materiel Command engineering installation group; an Air Force Reserve airlift wing with one C-130 airlift squadron and one WC-130 weather reconnaissance squadron; and a major Air Force medical center.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	40
b. Water pollution	30
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KEESLER AIR FORCE BASE, MISSISSIPPI	REPLACE TECH TRAINING FAC PH 2A

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	171-623	MAHG033004	28.600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
TECH TNG LAB/SHP	LS			19,447
TECH TNG LAB/SH	SM	15,480	1,250	(19,350
ANTITERRORISM FORCE PROTECTION (.5%)	SM	15,480	6	(97
SUPPORTING FACILITIES				6,245
UTILITIES	LS			(600
PAVEMENTS	LS			(600
SITE IMPROVEMENTS	LS			(700
DEMOLITION	SM	19.119	85	(1,625
RELOCATE RADARS	LS			(700
RELOCATE AVIONICS	LS			(2,020
SUBTOTAL				25,692
CONTINGENCY (5.0%)				1,285
TOTAL CONTRACT COST				26,976
SUPERVISION, INSPECTION & OVERHEAD (6 %)				1,619
TOTAL REQUEST				28,595
TOTAL REQUEST (ROUNDED)				28.600

0. Description of Proposed Construction: Concrete foundation, steel frame, two story construction with CMU curtain walls, metal roofing system, fire protection system, and all supporting utilities. Project will include demolition of Hangar 1 (Bldg 4201) and Cody Hall (Bldg 4202); at 19,119 SM, and construction of a 420 car parking lot. Project will also relocate the 403rd AFRC Avionics Section from Hangar to Facility 0228."

Air Conditioning: 770 KW

II. REQUIREMENT: 130,510 SM ADEQUATE: 69,309 SM SUBSTANDARD: 64,153 SM

PROJECT: Construct technical training facility. (Current Mission)

REQUIREMENT: An energy efficient facility with both laboratory and classroom training areas which can be configured to meet varied and changing training requirements to support technical training in fields to include radar and satellite systems, flight simulations, combat controllers, and air traffic control. Facility will be used to train 500 students a day. Force protection measures will be incorporated IAW USAF Installation Force Protection Guide.

CURRENT SITUATION: Buildings 4201 and 4202 in their current condition are obsolete for current 21st Century training. Over 2,500 students train in these facilities annually. Built in 1941, these facilities have not undergone any modernization program or reconfiguration suitable for current training programs. The floor area in both facilities is not efficiently utilized with approximately three fourths of the area housing functions which could be in a single story facility. The existing classrooms/labs and admin space, for the most part are larger than required with almost half of Hangar 1 being empty. This project will consolidate all training in two facilities into one, and reduce the current floor space by approximately 39,100 SF. The current facilities mechanical systems are inefficient, unreliable, unmaintainable and cannot provide adequate "creature comfort." During the summer, classrooms and labs become extremely cold while others are extremely warm. In order to continue training in these cold areas, students and staff are forced to wear coats and gloves. This condition makes it very difficult to

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KEESLER AIR FORCE BASE, MISSISSIPPI	REPLACE TECH TRAINING FAC PH 2A

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	171-623	MAHG033004	28,600

work on laboratory equipment, simulators and on computer keyboards. The existing electrical distribution system has reached its capacity, is difficult to maintain and does not meet current National Electrical Code requirements. Ungrounded wiring and overloaded circuits are safety hazards causing breakers and other power equipment to fail on a monthly basis. These power failures interrupt training and ultimately cause training delays. Lighting levels are 40% below standards for classrooms and laboratories. Eyestrain and frequent headaches are a way of life for students and faculty. The existing facility has no fire sprinkler system which is a National Fire Code requirement. Interior finishes and fixtures are worn and outdated.

IMPACT IF NOT PROVIDED: Student and faculty will continue to train in substandard classrooms and laboratories. Obsolete mechanical systems will continue to waste energy. The existing facilities will not adequately meet the requirements of the training squadrons. Keesler AFB will not be able to conduct technical training on systems being developed for the next century.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An Economic Analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operations; new construction was found to be the most cost-efficient over the life of the project. Base Civil Engineer: Lt Col Funk, (228) 377-2615, Technical Training Facility, 15,480 SM = 166,630 SF.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

KEESLER AIR FORCE BASE, MISSISSIPPI

4. PROJECT TITLE	5. PROJECT NUMBEF
REPLACE TECH TRAINING FAC PH 2A	MAHG033004

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	25-Jun-01
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of Jan 01	1 %
• (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1,573
(b) All Other Design Costs	286
(c) Total	1,859
(d) Contract	1,430
(e) In-house	429
(4) Construction Contract Award Date	02 Jun
(5) Construction Start	02 Aug
(6) Construction Completion	04 Aug

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA	4. COMMAND AIR COMBAT COMMAND		5. AREA CONST COST INDEX 1.12

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNI	CIV	
a. As of 30 Sep 00	875	5,550	1,978				372	823	290	9,888
b. End FY 2005	896	5,720	1,986				372	823	290	10,087

7. INVENTORY DATA $1000)

a. Total Acreage 13,742	
b. Inventory Totals as of: 30 Sep 00	559.134
c. Authorization Not Yet In Inventorv:	19,621
d. Authorization Requested In this Program:	12,600
e. Authorization Included In Following Program: (FY2003)	2,950
f. Planned in Next Four Program Years:	42,493
a. Remainina Deficiencv:	72,600
h. Grand Total:	709,398

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(000)	DESIGN START	STATUS CMP
141-454	AFC2TIG Dynamic Battle Control Center	3,700	SM	$12,600	JUN 01	MAY 02
			Total	$12,600		

9a. Future Projects: Included in the Following Program: (FY2003)

2 16-642	F-22 Munitions Maintenance Facility	604	SM	$2,950
			Total	$2,950

9b. Future Projects: Typically Planned Next Four Years

214-425	Vehicle Maintenance Complex	3,192	SM	$10,700
721-312	Dormitory	144	RM	$11,793
1911-146	Live Ordnance Departure Area (LODA)	220	AC	$20,000

9c. Real Prooertv Maintenance Backlog This Installation 44

10. Mission or Major Functions: The Air Warfare Center; a flying wing that includes the Weapons Schools for the following (A-l 0, B-l, B-52, F-l 5C/Es, F-l 6C, HH-60, Command and Control, intelligence, and Space Weapons), an adversary threat group (Red Flag), a test squadron (A-10, F-15, and F-16 aircraft), the USAF Air Demonstration Squadron (Thunderbirds), and a HH-60 rescue squadron; Air Force Combat Rescue School; a close air support training unit(Air Warrior), a Red Horse squadron; AF Material Command Munitions squadron, and an Air to Ground Operations School (AGOS).

11. Outstandinq pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE, NEVADA	AFC2TIG DYNAMIC BATTLE CONTROL CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
22176	141-454	RKMF033007	12,600

9. COST ESTIMATES

ITEM	U/N	QUANTITY	UNIT COST	COST ($000)
AFC2TIG DYNAMIC BATTLE CONTROL CENTER	LS			6,638
DYNAMIC BATTLE CONTROL CENTER	SM	3,700	1,785	(6,605)
ANTITERRORISM/FORCE PROTECTION	LS			(33)
SUPPORTING FACILITIES				4,747
UTILITIES	LS			(400)
PAVEMENTS	SM	4,000	50	(200)
SITE IMPROVEMENTS	SM	14,000	15	(210)
SECURITY REQUIREMENTS	SM	3,700	925	(3,423)
SPECIAL HVAC/POWER FILTER	LS			(514)
SUBTOTAL				11,384
CONTINGENCY (5.0%)				569
TOTAL CONTRACT COST				11,953
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				681
TOTAL REQUEST				12,635
TOTAL REQUEST (ROUNDED)				12,600
EQUIPMENT FROM OTHER APPROPRIATIONS				(70)

IO. Description of Proposed Construction: Reinforced concrete foundation and concrete floor slab, structural steel frames, split-face masonry unit walls, standing seam metal roof, fire detection/protection system, utilities, pavements, landscaping and necessary support. Special SCIF/SAR requirements. Includes minimum DoD nterim antiterrosrism/force protection measures.

Air Conditioning: 335 KW

11. REQUIREMENT: 3,700 SM ADEQUATE: SM SUBSTANDARD: SM

PROJECT: Construct Dynamic Battle Control Center (DBCC). (Current Mission)

REQUIREMENT: An adequately sized and configured facility is required to support the DBCC function of the Det 3, AFC2TIG (Air Force Command and Control Training and Innovation Group) beddown at Nellis AFB. Det 3, AFC2TIG provides the integration and direction of Command and Control (C2) at the operational level of warfare down to the tactical level, while meeting the CORONA tasking to "put Aerospace Operations Center (AOC) raining at Nellis AFB." It also establishes the DBCC to house Intelligence, Surveillance, and Reconnaissance ISR) functions and components, and applies Joint Expeditionary Force Experiment (JEFX-1999) lessons learned by providing a year-round experimentation venue for key C2/ISR process and equipment. Det 3, C2TIG will be esponsible for facilitating and maintaining the linkage between Air Warfare Center (AWC) tactics and the tactical svel of warfare, and the AFC2TIG operational level of warefare. Force protection measures are incorporated IAW DoD interim force protection standards.

CURRENT SITUATION: CSAF (Chief of Staff of the Air Force) received the JEFX-1999 outbrief in December 999 and approved integration of a Dynamic Battle Control Center year-round at Nellis AFB for exercises and xperimentation events following the JEFX-2000 exercises at Nellis in October 2000. In June, 2000, a SATAF Site Activation Task Force) was conducted at Nellis AFB to implement this CSAF directive. Since permanent acilities for the DBCC do not exist at Nellis AFB to support this mission, temporary facilities (modular buildings) were provided in October, 2000 to house this mission interim to the permanent construction provided by this

COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE, NEVADA	AFC2TIG DYNAMIC BATTLE CONTROL CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
22176	141-454	RKMF033007	12,600

MILCON. The scope and cost of this MILCON were validated by the June 2000 SATAF at Nellis AFB.

IMPACT IF NOT PROVIDED: This CSAF tasking cannot be met after FY03 without permanent DBCC facilities in place. The capability to effectively employ the full range of forces will not be realized until AOCs (Air Operations Centers) can effectively interface with C2 nodes at the tactical level. Full USAF transition to an Expeditionary Air Force (EAF) will be inhibited, due to the lack of adequate C2/TIG linkage between the AFC2TIG and AWC. Lack of adequate facilities will also preclude the most effective conduct of future JEFXs and degrade C2/ISR synthesis and subsequent EAF maintenance.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility requirements." Base Civil Engineer: Col Anvil E White III, (702) 652-4833. (Dynamic Battle Control Center: 3,700 SM = 39,905 SF)

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		
4. PROJECT TITLE AFC2TIG DYNAMIC BATTLE CONTROL CENTER		5. PROJECT NUMBER RKMF033007

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	378
(4) Construction Contract Award Date	02 Jul
(5) Construction Start	02 Aug
(6) Construction Completion	04 Jul
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT **NOMENCLATURE**	PROCURING APPROPRIATION	**FISCAL YEAR APPROPRIATED** OR REQUESTED	**COST** ($000)
EQUIPMENT FROM OTHER	3010	2002	70

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY	4. COMMAND AIR MOBILITY COMMAND		5. AREA CONST COST INDEX 1.17

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	611	3,770	2,005				107	388	119	7,000
b. End FY 2005	587	3,713	1,993				107	388	119	6,907

7. INVENTORY DATA $(OOO)

a. Total Acreage 3,661	
b. Inventory Totals as of: 30 Sep 00	455,058
c. Authorization Not Yet In Inventory:	28,085
d. Authorization Requested In this Program:	36,550
e. Authorization Included In Following Program: (FY2003)	0
f. Planned in Next Four Program Years:	49,877
g. Remaining Deficiency:	256,900
h. Grand Total:	826,470

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(000)	DESIGN START	STATUS CMP
135-583	C-I 7 Communications Support	1	LS	$1,400	JUL 01	MAR 02
171-212	C-I 7 Flight Simulator Facility	1,150	SM	$4,900	JUL 01	MAR 02
211-111	C-I 7 Three Bay Hangar	1	LS	$1,500	JUL 01	APR 02
211-111	C-I 7 Maintenance Hangar	10,869	SM	$27,700	TURN KEY	
211-179	C-I 7 ADAL Fuel Cell	1	LS	$1,050	JUL 01	DEC 01
			Total	$36,550		

9a. Future Projects: Included In the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

171-815	ADAL NCOA Academic Facilities	13,079	SM	$14,808
442-758	Air Freight Terminal/Base Support Complex (Ph 2)	5,952	SM	$12,925
721-315	Mobility Warfare Center Lodging	5,600	SM	$10,344
812-225	Electrical Distribution System	10,010	SM	$11,800

9c. Real Property Maintenance Backlog This Installation 88

10. Mission or Major Functions: HQ 21st Air Force; an air mobility wing with two C-141 squadrons and two KC-10 squadrons; an Air Mobility Operations Group (AMOG), the Air Mobility Command Mobility Warfare Center; an AFRC C-141/KC-10 associate air mobility wing; and a NJ-ANG air refueling wing with two KC-135 squadrons.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	C-I 7 ADAL FUEL CELL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	211-179	PTFL033014	1,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-I 7 FUEL CELL	LS			0
SUPPORTING FACILITIES				951
HANGAR DOORS	LS			(285
FIRE PROTECTION	LS			(462:
HEATING SYSTEM	LS			(204
SUBTOTAL				951
CONTINGENCY (5.0%)				48
TOTAL CONTRACT COST				999
SUPERVISION, INSPECTION &OVERHEAD (5.7 %)				57
TOTAL REQUEST				1,055
TOTAL REQUEST (ROUNDED)				1,050

10. Description of Proposed Construction: Alter fuel cell nose dock 1823 for KC-I O's and C-I 41's during renovations of Hangar 1837 for the C-I 7 beddown. Project to include alteration of doors, relocation of heaters (for proper wingtip clearance), installation of fire suppression system, and all other necessary support.

11. REQUIREMENT: 2 EA ADEQUATE: EA SUBSTANDARD: 2 EA

PROJECT: Alter fuel cell nose dock 1823.

REQUIREMENT: To alter fuel cell nose dock 1823 for C-17s, KC-10s and C-141s during renovations of Hangar 1837 for the C-I 7 beddown. Project to include alteration of doors, relocation of heaters (for proper wingtip clearance), installation of fire suppression system, and all other necessary support. A fuel cell is required to perform scheduled inspections and major maintenance on the fuel systems on the KC-I 0s and C-I 41 s during renovation of "B" bay (fuel cell) in hangar 1837. Due to workload requirements McGuire is authorized 2 fuel cells and with the addition of the C-I 7 that requirement will not change. Both the KC-I 0 and the C-I 7 require more fuel system maintenance than other aircraft. With the alterations to 1823 the nose dock will be able to accommodate any of the aircraft assigned to McGuire in accordance with AFH 32-1084, Chapter 7, paragraph 7.2.4.

CURRENT SITUATION: The current KC-10 fuel cell ("B" bay in hangar 1837) cannot accommodate the C-17 aircraft without violating minimum aircraft safety and clearance standards due to the wing configuration of the C-17 aircraft. A FY03 C-I 7 MILCON project has been identified to modify hangar 1837 for the C-I 7 aircraft. However, during the fuel cell modification, KC-10 scheduled fuel cell inspections and major fuel cell maintenance work will not be able to be performed. This project needs to be completed before work can be started in hangar 1837. Without a fuel cell to conduct scheduled inspections and major fuel cell maintenance, the KC-I 0 mission will be severely impacted. Currently 1823 is used for C-141 fuel cell maintenance however there is a waiver due to lack of a fire suppression system. To make the fuel cell fully functional and meet minimum aircraft safety and clearance standards, the hangar doors and heating system need to be modified.

IMPACT IF NOT PROVIDED: Scheduled inspections and major maintenance on fuel systems for the KC-10s and C-141s will not be able to be accomplished at McGuire during renovation of "B" bay in Hangar 1837. Inability to conduct fuel cell maintenance will force deferral of required maintenance resulting in impacts on programmed utilization rates for the KC-10 and C-141 aircraft.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	C-I 7 ADAL FUEL CELL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	211-179	PTFL033014	1,050

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. BASE CIVIL ENGINEER: Lt Col Smiley, (609) 754-2642.

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY		
4. PROJECT TITLE C-17 ADAL FUEL CELL		5. PROJECT NUMBER PTFL033014

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	01 -JUL-01
(b) Parametric Cost Estimates used to develop costs	YES
. (c) Percent Complete as of Jan 01	1 %
. (d) Date 35% Designed.	01 -OCT-01
(e) Date Design Complete	15-DEC-01
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	**NO**
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	63
(b) All Other Design Costs	32
(c) Total	95
(d) Contract	79
(e) In-house	16
(4) Construction Contract Award Date	02 Feb
(5) Construction Start	02 Apr
(6) Construction Completion	03 Apr

. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	C-17 COMMUNICATIONS SUPPORT

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	1 35-583	PTFL033007	1,400

9. COST ESTIMATES

ITEM	J/M	QUANTITY	UNIT COST	COST ($000)
C-I 7 COMMUNICATIONS SUPPORT	LS			955
SUPPORTING FACILITIES				297
UTILITIES	LS			(78
PAVEMENTS	LS			(69
SITE IMPROVEMENTS	LS			(85
OTHER SUPPORTING FACILITIES	LS			(65
SUBTOTAL				1,252
CONTINGENCY (5.0%)				63
TOTAL CONTRACT COST				1,315
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				75
TOTAL REQUEST				1,390
TOTAL REQUEST (ROUNDED)				1.400

10. Description of Proposed Construction: Remove and relocate communication lines and manholes to support the C-17 beddown. Demolish existing ductbanks and manholes, install new manholes, install 4 inch ducts for copper and fiber optic lines, install handholes, repair pavements, site support, and all other necessary support.

11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS

PROJECT: C-17 Communications Support. (New Mission)

REQUIREMENT: Construction of communication lines are required to support the C-17 beddown. A cable backbone, consisting of copper and fiber optic lines are required in the C-17 beddown area. The lines are required for both voice and data information. Due to the siting of the C-I 7 campus the existing communications ducts and manholes need to be relocated.

CURRENT SITUATION: The existing communications system is currently under the footprint of several facilities in the C-17 campus. Additionally, the existing service is incapable of supporting the new communications requirements of the C-17 aircraft.

IMPACT IF NOT PROVIDED: New facilities will not be capable of utilizing the base comnmunications network without being upgraded. Facilities in the C-17 campus will be isolated and without sufficient voice or data communications, making it impossible for the assigned units to operate.

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 Handbook 32-1084 '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 neet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. BASE CIVIL ENGINEER: LT COL SMILEY (609) 754-2642.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION

MCGUIRE AIR FORCE BASE, NEW JERSEY

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 COMMUNICATIONS SUPPORT	PTFL033007

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	30-JUL-01
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	1 %
• (d) Date 35% Designed.	30-SEP-01
(e) Date Design Complete	30-MAR-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	84
(b) All Other Design Costs	42
(c) Total	126
(d) Contract	105
(e) In-house	21
(4) Construction Contract Award Date	02 Apr
(5) Construction Start	02 Jun
(6) Construction Completion	03 Jun

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	C-17 FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	171-212	PTFL033004	4,900

9. COST ESTIMATES

ITEM	J/M	QUANTITY	UNIT COST	COST ($000)
C-17 FLIGHT SIMULATOR FACILITY	LS			3,092
FLIGHT SIMULATOR TRAINING	SM	1,150	2,562	(2,946
ANTITERRIORISM/FORCE PROTECTION	SM	1,150	127	(146
SUPPORTING FACILITIES				1,316
UTILITIES	LS			(724
PAVEMENTS	LS			(260
SITE IMPROVEMENTS	LS			(105
COMMUNICATIONS SUPPORT	LS			(95
DEMOLITION/ASBESTOS/LEAD BASED PAINT	SM	600	220	(132
SUBTOTAL				4,408
CONTINGENCY (5.0%)				220
TOTAL CONTRACT COST				4,629
SUPERVISION, INSPECTION &OVERHEAD (5.7 %)				264
FOTAL REQUEST				4,893
TOTAL REQUEST (ROUNDED)				4,900
EQUIPMENT FROM OTHER APPROPRIATIONS				(15,900

IO. Description of Proposed Construction: Steel framed structure with reinforced concrete floor and foundation, masonry walls, sloped metal roof system, and electrical/mechanical/communication/fire protection and detection systems, site improvements, vehicle parking, and all other necessary support. Includes antiterriorism/force protection physical security IAW DoD minimal construction standards. Demolishes one 600 SM facility.

Air Conditioning: 75 KW

11 1. REQUIREMENT: 2,706 SM ADEQUATE: 1,556 SM SUBSTANDARD: 1 ,150 SM

PROJECT: C-17 Flight Simulator Training Facility. (New Mission)

REQUIREMENT: Construction of a Flight Simulator Training facility is required to support the beddown of a C-17 Squadron. An adequate facility, properly sized and configured for a C-l 7 simulator system and its associated equipment is required. The simulator provides initial training, qualification, proficiency, and effective mission procedures training. It is essential to provide hazardous emergency training procedures that otherwise could not be provided. Aircrew Training System (ATS) operation requires space for one Weapon System Trainer, one Loadmaster Station, test equipment, spares, contractor operation and maintenance support personnel, training material, computer-based training equipment, and a government project officer.

CURRENT SITUATION: There is not an existing facility that can be retrofitted for the C-l 7 simulator. Currently C-141 simulator training is accomplished off base approximately 20 miles away. C-17 simulators at Altus, Charleston, and McChord are fully utilized and cannot economically support simulator training requirements for the aircrews at McGuire.

IMPACT IF NOT PROVIDED: The beddown and safe operation of the C-17 aircraft could not be accomplished without providing required flight simulator training facilities. Emergency procedures training that can only be taught in the simulator would need to be accomplished at another location. Training at another location would incur additional TDY costs and a negative impact on aircrew availability due to crews in transit for training.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	C-17 FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	171-212	PTFL033004	4,900

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 Handbook 32-1084 '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. BASE CIVIL ENGINEER: Lt Col Smiley, (609) 754-6188. C-17 Flight Simulator Facility 1 ,150 SM = 12,380 SF

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION

MCGUIRE AIR FORCE BASE, NEW JERSEY

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 FLIGHT SIMULATOR FACILITY	PTFL033004

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JUL-01
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	60 %
• (d) Date 35% Designed.	30-SEP-01
(e) Date Design Complete	30-MAR-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	**NO**
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or(d) + (e):	($000)
(a) Production of Plans and Specifications	290
(b) All Other Design Costs	200
(c) Total	490
(d) Contract	320
(e) In-house	170
(4) Construction Contract Award Date	02 May
(5) Construction Start	02 Jun
(6) Construction Completion	03 Jun

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
EQUIPMENT	3010	2004	15900

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	C-I 7 MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	211-111	PTFL033002	27,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-I 7 MAINTENANCE HANGAR	LS			17,039
MAINTENANCE HANGAR	SM	4,366	2,148	(9,378
GENERAL PURPOSE ACFT MAINT	SM	6,503	1,153	(7,498
ANTITERRORISM/FORCE PROTECTION	SM	10,869	15	(163
SUPPORTING FACILITIES				7,919
PAVEMENTS	LS			(1,735
SITE IMPROVEMENTS	LS			(1,799
UTILITIES/COMMUNICATIONS SUPPORT	LS			(2,692
DEMOLITION/ASBESTOS REMOVAL	SM	7,696	220	(1,693
SUBTOTAL				24,958
CONTINGENCY (5.0%)				1,248
TOTAL CONTRACT COST				26,206
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				1,494
TOTAL REQUEST				27,700
TOTAL REQUEST (ROUNDED)				27,700
EQUIPMENT FROM OTHER APPROPRIATIONS				(1,500

10. Description of Proposed Construction: Construct an enclosed, high bay hangar with supporting maintenance shops for maintaining C-17 aircraft. Facility to include concrete footings, foundation and floor slab, structural steel frame, insulated walls and roof, fire protection system, utilities, site support, apron, and all other necessary support. Include AT/FP physical security IAW DoD minimal construction standards. Demo of 7,696 SM.

Air Conditioning: 150 KW

11. REQUIREMENT: 10,869 SM ADEQUATE: SM SUBSTANDARD: 9,750 SM

PROJECT: C-17 maintenance hangar and maintenance shops. (New Mission)

REQUIREMENT: Construction is required to support the beddown of a C-17 squadron. An adequate facility, properly sized and configured, for aircraft maintenance, individually unique aircraft test and evaluation of aircraft systems, weapons systems, and high-priority test programs. This facility provides indoor aircraft jacking, flight control replacement, rigging and other required heavy maintenance. Maintenance shops are required for manufacturing, inspection, repair, and recovery to support the C-17 aircraft. Shops include metal technology (machine and welding), structural maintenance (sheet metal and fiberglass/composites), nondestructive nspection, electro-environmental, pneudraulics, wheel and tire and aero repair/crash recovery shops. A C-17 squadron requires 3 covered maintenance spaces. AFH 32-1084 "Facility Requirements," paragraph 7.2 allows one of the required aircraft maintenance spaces be provided in a hangar sized to provide one completely covered space.

CURRENT SITUATION: The existing C-141 hangars are too small to completely house the C-17 aircraft, which has larger dimensions than a C-I 41. KC-1 0 hangars are fully occupied with aircraft undergoing required scheduled inspection and could only be used as nose docks. Additionally, the C-I 41 Aircraft Maintenance Shops are not properly configured or located to efficiently accommodate C-17 aircraft requirements. Building electrical, mechanical and plumbing systems are undersized and deteriorated and in need of replacement. The Nondestructive Inspection Shop (NDI) is in a converted hangar several miles away from the rest of the shops. The

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	C-l 7 MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	211-111	PTFL033002	27,700

remaining shops are located away from the flightline and require crossing a main street to access the flightline. There is currently not adequate space that can be used for C-17 composite material repair.

IMPACT IF NOT PROVIDED: Inability to conduct aircraft maintenance in a fully enclosed maintenance hangar, protected from inclement weather and other environmental constraints, will force deferral of required maintenance, resulting in impacts on programmed utilization rates for the C-l 7 aircraft. Additionally, without properly configured and located maintenance shops mission requirements will be difficult to meet, resulting in an increased risk of aborted missions.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, “Facility Planning and Design Guide.” However, this project does meet the criteria/scope specified in Air Force Handbook 32-1084 “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. BASE CIVIL ENGINEER: LTC SMILEY, (609) 754-6188. C-17 Maintenance Hangai 10.869 SM = ″ 116990 SF.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION

MCGUIRE AIR FORCE BASE, NEW JERSEY

4. PROJECT TITLE	5. PROJECT NUMBER
C-17 MAINTENANCE HANGAR	PTFL033002

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:

(a) Standard of Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) Design Allowance 1,108

(4) Construction Contract Award Date 02 Jun

(5) Construction Start **02** Aug

(6) Construction Completion 05 Apr

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
EQUIPMENT	**3080**	**2003**	1500

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	C-I 7 THREE BAY HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	211-111	PTFL029999	1,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 ADAL THREE BAY HANGAR	LS			1,248
ADD TO	SM	800	1,208	(966
ALTER	SM	280	1,007	(282
SUPPORTING FACILITIES				95
UTILITIES	LS			(45
PAVEMENTS	LS			(20
SITE IMPROVEMENTS	LS			(30
SUBTOTAL				1,343
CONTINGENCY (5.0%)				67
TOTAL CONTRACT COST				1,411
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				80
TOTAL REQUEST				1,491
TOTAL REQUEST (ROUNDED)				1,500

10. Description of Proposed Construction: Add to and alter Three Bay Hangar, 1837. Project constructs addition on "B" and "C" bays for proper wing tip clearances. Addition to include reinforced concrete foundation and floor slab, structural steel framing, reconfiguration of mechanical/electrical/fire suppression and detection systems, partial demolition of existing structural framing, site work, and all other necessary support.

11. REQUIREMENT: 1,080 SM ADEQUATE: SM SUBSTANDARD: SM

PROJECT: Add to and alter Three Bay Hangar, 1837 for C-I 7.

REQUIREMENT: This project is required to provide an adequate fuel cell and wash rack to support the beddown of the C-I 7 aircraft. A fuel cell is required to perform major and minor maintenance on the C-I 7's fuel systems. Due to workload requirements McGuire, is authorized 2 fuel cells and with the addition of the C-17 that requirement will not change. The C-17 requires more fuel system maintenance than other aircraft. A washrack is required for washing, corrosion treatment, and corrosion repair to accommodate any of the aircraft assigned to McGuire in accordance with AFH 32-I 084, Chapter 7, and paragraph 7.2.4.

CURRENT SITUATION: The current fuel cell and washrack ("B" and "C" bays in hangar 1837) cannot accommodate the C-17 aircraft without violating minimum aircraft safety and clearance standards due to the wing configuration of the C-17 aircraft. Without an adequate fuel cell and washrack, conducting C-17 scheduled fuel cell maintenance work, aircraft washing and corrosion control will not be performed resulting in severe impact to he C-I 7 mission.

MPACT IF NOT PROVIDED: Scheduled inspections and major maintenance on the fuel system and scheduled washing for the C-17s will not be able to be accomplished at McGuire. Inability to conduct fuel cell maintenance and repair corrosion damage will force deferral of required maintenance resulting in impacts on programmed utilization rates for the C-17 aircraft." "

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide." However, thiis project does meet the criteria/scope in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (status quo, enovation, upgrade/removal, new construction, leasing) was done. It indicates there is only one option that will

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	C-17 THREE BAY HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	211-111	PTFL029999	1,500

meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exemption has been prepared. BASE CIVIL ENGINEER: Lt Col Smiley, (609) 754-2642. C-17 Three Bay Hangar 1,080 SM = 11,625 SF

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY		
4. PROJECT TITLE C-17 THREE BAY HANGAR		5. PROJECT NUMBEF PTFL029999

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	30-JUL-01
(b) Parametric Cost Estimates used to develop costs	YES
(c) Percent Complete as of Jan 01	1 %
(d) Date 35% Designed.	30-SEP-01
(e) Date Design Complete	30-APR-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	90
(b) All Other Design Costs	45
(c) Total	135
(d) Contract	113
(e) In-house	23
(4) Construction Contract Award Date	02 Jun
(5) Construction Start	02 Aug
(6) Construction Completion	03 Aug

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONST COST INDEX
CANNON AIR FORCE BASE, NEW MEXICO	AIR COMBAT COMMAND	1.04

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	288	3,023	678				9	95	53	4,146
b. End FY 2005	287	3,234	674				9	95	53	4,352

7. INVENTORY DATA $(000)

a. Total Acreage 4,536	
b. Inventory Totals as of: 30 Sep 00	360.355
c. Authorization Not Yet In Inventory:	7,066
d. Authorization Requested In this Program:	9,400
e. Authorization Included In Following Program: (FY2003)	0
f. Planned in Next Four Program Years:	8.500
a. Remainina Deficiencv:	47,200
h. Grand Total:	432,521

3. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(OOO)	DESIGN START	STATUS CMP
130-142	Replace Fire/Crash Rescue Station	3,430 SM	$9,400	JUN 01	Apr 02
		Total	$9,400		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

218-712	AGE Complex	6,284 SM	$8,500

9c. Real Property Maintenance Backlog This Installation 29

10. Mission or Major Functions: A fighter wing which includes four United States F-16 fighter squadrons and one Republic of Sinaapore F-I 6 sauadron.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE, NEW MEXICO	REPLACE FIRE/CRASH RESCUE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
22176	130-142	CZQZ963007	9,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE/CRASH RESCUE STATION	LS			6,181
(2)FIRE/CRASH RESCUE STATION	SM	3,430	1,793	(6,150:
ANTITERRORISM/FORCE PROTECTION	LS			(31)
SUPPORTING FACILITIES				2,290
UTILITIES	LS			(490)
PAVEMENTS	LS			(518)
SITE IMPROVEMENTS	LS			(338:
DEMOLITION	SM	3,835	237	(909)
COMMUNICATION DUCTS	LM	300	117	(35)
SUBTOTAL				8,471
CONTINGENCY (5.0%)				424
TOTAL CONTRACT COST				8,895
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				507
TOTAL REQUEST				9,402
TOTAL REQUEST (ROUNDED)				9,400

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, CMU exterior walls, and standing seam metal roof. Includes utilities, HVAC, site improvements, communication ducts to the nearest manhole, back-up power, fire protection and all other support. Demolishes 3 buildings (3,835 SM). Includes minimum DoD interim force protection standards.

Air Conditioning: 125 KW

11. REQUIREMENT: 3,430 SM ADEQUATE: SM SUBSTANDARD: 1,544 SM

PROJECT: Construct a Fire/Crash Rescue Station (Current Mission).

REQUIREMENT: A properly sized and configured fire station is required to provide fire protection and fire ighting services for base facilities and aircraft crash rescue/fire fighting. The station will consolidate fire fighting equipment and crews, a central fire alarm system, command and control and 24 hour crew quarters. Antiterrorism/force protection measures will comply with the DoD interim minimum force protection standard.

CURRENT SITUATION: The existing Fire Station was constructed in 1960 and does not meet the requirements or fire fighting operations. This has led to the degradation of fire fighting capabilities impacting the 27th Fighter Ning and the morale of fire fighting personnel. The current facility consists of 1,544 SM, but 3,430 SM is equired. The current facility cannot shelter all fire fighting vehicles and lacks adequate clearance for assigned crash fire vehicles (less than 6 inches of clearance in some stalls). Overhead doors are in constant need of epair. One door fell on a P-19 crash vehicle; the vehicle remained out of service for several days seriously fegrading fire fighting capabilities. The roof leaks throughout the facility, causing damage to equipment and systems while impacting morale. The electrical system does not meet national electrical codes and cannot handle the load of current operations. The water supply and sanitary sewer systems are failing. The training area s inadequately sized and cannot accommodate new computerized training systems. The facility violates OSHA and National Fire Code compliance requirements. The facility lacks a “clean room” for breathing apparatus maintenance and servicing, a vehicle exhaust ventilation system, and ventilated protective gear storage.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE, NEW MEXICO	REPLACE FIRE/CRASH RESCUE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
22176	130-142	CZQZ963007	9,400

Dormitory rooms are less than half the size required, gang showers still exist, and administrative staff is working out of sleeping quarters. Recreational facilities are nonexistent. This project will consolidate fire department functions currently in two facilities into a single fire station.

IMPACT IF NOT PROVIDED: Adequate fire protection for Air Force facilities and aircraft will not be provided. Maintenance costs of the existing facilities will continue to increase, and fire fighting effectiveness will be hampered by the lack of an adequate facility. Potential loss of Air Force lives and property due to slower response time. The base will continue to violate OSHA and National Fire Code requirements with the current facility, thereby exposing fire fighting personnel to safety hazards. The degraded morale of the assigned personnel and degrading facilities and equipment will continue to work against response capabilities.

ADDITIONAL: This project meets the scope/criteria specified in Part II of Military Handbook 1190, “Facility Planning and Design Guide” and is in line with the “AF Fire Station Facility Design Guide.” Base Civil Engineer: Lt Col Nicholas L. Despot-t: 681-2008. Fire/Crash Rescue Station 3,430 SM = 36,907 SF

COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE	1
AIR FORCE	(computer generated)		

3. INSTALLATION AND LOCATION

CANNON AIR FORCE BASE, NEW MEXICO

4. PROJECT TITLE	5. PROJECT NUMBER
REPLACE FIRE/CRASH RESCUE STATION	CZQZ963007

12. SUPPLEMENTAL DATA: **Design, Bid, Build**

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	25-JUN-01
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of Jan 01	1 %
• (d) Date 35% Designed.	08-Oct-01
(e) Date Design Complete	28-Apr-02
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard of Definitive Design -	**NO**
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	564
(b) All Other Design Costs	282
(c) Total	846
(d) Contract	705
(e) In-house	141
(4) Construction Contract Award Date	02 Jul
(5) Construction Start	02 Aug
(6) Construction Completion	03 Dec

• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO		4. COMMAND AIR FORCE MATERIEL COMMAND	5. AREA CONST COST INDEX 0.99

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNI	CIV	OFF	ENI	CIV	
a. As of 30 Sep 00	1,293	2,486	3,395	17	38		190	396	1,821	9,636
b. End FY 2005	1,278	2,508	3,091	17	37		190	396	1,821	9,338

7. INVENTORY DATA $(000)

a. Total Acreage	44,066	
b. Inventory Totals as of: 30 Sep 00		594.159
c. Authorization Not Yet In Inventorv:		46,546
d. Authorization Requested In this Program:		15,500
e. Authorization Included In Following Program: (FY2003)		0
f. Planned in Next Four Program Years:		49,685
a. Remainina Deficiencv:		190,627
h. Grand Total:		896,517

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN STATUS START	CMP
31 0-91 1	Telescope/Atmosphere Compensation Laboratory	5,022 SM	$15,500	TURN KEY	
		Total	$15,500		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

171-476	Upgrade Small Arms Range and Support Facility	1 LS	$4,300
31 o-924	Consolidate Advanced High Power Microwave Lab, Ph 1	3,253 SM	$12,000
310-931	Replace High Power Gas Laser Lab Complex	1,303 SM	$8,000
724-417	Visiting Quarters	4,704 SM	$8,385
851-147	Reconstruct/Widen Wyoming Road	1 LS	$17,000

9c. Real Property Maintenance Backlog This Installation 160

10. Mission or Major Functions: An air base wing; a special operations wing with HH-60, UH-1 N, TH-53, MH-53, MC-130 and HC-130 aircraft; Air Force Research Laboratory research site locations for directed energy, space vehicle, and T&E directorates; AF Inspection Agency; AF Operational Test & Evaluation Center; AF Safety Center; and an Air National Guard fiahter wing with F-16 aircraft.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	25,000
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE, NEW MEXICO	TELESCOPE/ATMOSPHERE COMPENSATION LABORATORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72806	31 o-91 1	MHMV993008	15,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
TELESCOPE/ATMOSPHERE COMPENSATION LABORATORY	SM	5,022		9,105
HIGH TECH LAB	SM	3,040	2,100	(6,384:
ADMINISTRATIVE SPACE	SM	1,982	1,350	(2,676'
ANTITERRORISM FORCE PROTECTION	SM	5,022	9	(45)
SUPPORTING FACILITIES				4,752
UTILITIES	LS			(1,200)
REPLACE SUBSTATION	LS			(1,700)
SITE IMPROVEMENMTS/PAVEMENTS/COMM	LS			(1,700)
DEMOLITION	SM	1,170	130	(152)
SUBTOTAL				13,857
CONTINGENCY (5.0%)				693
TOTAL CONTRACT COST				14,550
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				829
TOTAL REQUEST				15,379
TOTAL REQUEST (ROUNDED)				15,500

10. Description of Proposed Construction: Concrete slab on grade beams and piers, steel columns, masonry walls, and metal roof. Provide access road, site improvements, fencing, lighting and parking. Upgrade the existing electrical substation. Demolish three facilities (1,170 SM). Comply with DoD interim minimum force protection construction standard.

Air Conditioning: 450 KW

11. REQUIREMENT: 5,022 SM ADEQUATE: SM SUBSTANDARD: 1,170 SM

PROJECT: Construct a telescope/atmosphere compensation laboratory. (New Mission)

REQUIREMENT: Laboratory space is required to accommodate and support mission growth and development of adaptive optics, lasers, and spacecraft tracking technologies. Lab space is needed for preparatory experiments and equipment setup prior to the experiments on the telescope itself. A special lab is required to house a chamber for periodic coating of the 3.5 meter telescope mirror essential for successful science and technology (S&T) development. A facility is required for scientist's and engineer's (S&E) offices, customer work areas, conference rooms and sleeping rooms for around-the-clock on-site experiments. Comply with DoD interim minimum force protection construction standard.

CURRENT SITUATION: The Starfire Optical Range (SOR) is a unique national asset for adaptive optics/spacecraft tracking technology. It supports tasks of air & space superiority, lethal & nonlethal precision engagement, information superiority, and monitors and assesses global conditions and events. Laboratory space is too small due to expanding missions including S&T development and increased support to Airborne Laser (ABL) and Spaceborne Laser (SBL) programs. Lab space is almost totally devoted to experiments that currently utilize the telescope. This has basically eliminated the ability to develop new large electro-optical systems like new Adaptive Optics (AO), relay mirrors, multi-conjugate AO, and advanced telescope control systems. With development lab space available, SOR developed the 941 channel AO system on-site for $2M, while a contractor

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE, NEW MEXICO	TELESCOPE/ATMOSPHERE COMPENSATION LABORATORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72806	31 0-91 1	MHMV993008	15,500

worked off-site over 4 years and spent $40M to produce the same system. Around-the-clock work is inefficient because experimenters cannot remain on-site and must be on-call to drive the 45-60 minutes from the nearest town back to the site to resolve issues with the experiment.

IMPACT IF NOT PROVIDED: Optics and electronics laboratories will not be available for the development of crucial new satellite imaging and laser beam control systems required for ground, air, and space-based laser weapons. Demonstration of integrated beam control for ground-based laser weapons will not be completed by 2004, with a probable delay of 2-3 years and an additional cost of $30M. Multiconjugate adaptive optics, which could double the effective range of airborne lasers and reduce the cost of a relay mirror constellation by a factor of 4-10, will be indefinitely delayed beyond the planned date of FY05. The 3.5-meter telescope mirror must travel 500 miles to be recoated with a high probability of breakage.

ADDITIONAL: This project does meet the criteria/scope specified in Air Force Handbook 32-1084 "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, new construction was found to be the most cost efficient over the life of the project. Base Civil Engineer: Col Randie Strom, (850) 882-2876. Telescope/Atmosphere Compensation Lab: 5,022 SM = 54,000 SF. Design Build - Design Cost (4% of Subtotal Cost): $554,000.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION
KIRTLAND AIR FORCE BASE, NEW MEXICO

4. PROJECT TITLE	5. PROJECT NUMBER
TELESCOPE/ATMOSPHERE COMPENSATION LABORATORY	MHMV993008

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	620
(4) Construction Contract Award Date	01 Nov
(5) Construction Start	02 Jan
(6) Construction Completion	03 Nov
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION POPE AIR FORCE BASE, NORTH CAROLINA	4. COMMAND AIR MOBILITY COMMAND		5. AREA CONST COST INDEX 0.88

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNL	CIV	OFF	FNI	CIV	
a. As of 30 Sep 00	651	4,320	496				57	152	77	5,753
b. End FY 2005	647	4,478	504				57	152	77	5.915

7. INVENTORY DATA $(000)

a. Total Acreage 1,986	
b. Inventory Totals as of: 30 Sep 00	233.607
c. Authorization Not Yet In Inventorv:	36,832
d. Authorization Requested In this Program:	17,800
e. Authorization Included In Following Program: (FY2003)	5,100
f. Planned in Next Four Program Years:	31.513
a. Remainina Deficiencv:	95,800
h. Grand Total:	420,652

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $(000)	DESIGN START	STATUS CMP
211-159	Consolidate C-130 Corrosion Control Facility	6,500 SM	$17,800		TURN KEY
		Total	$17,800		

9a. Future Projects: Included in the Following Program: (FY2003)

721-312	Dormitory	96 RM	$5,100
		Total	$5,100

9b. Future Projects: Typically Planned Next Four Years

141-753	682 Air Support Operations Squadron	2,695 SM	$7,700
217-713	A-10 ECM Pod Facility	2,600 SM	$5,400
218-712	Aerospace Ground Equipment Facility	2,800 SM	$5,300
721-312	Dormitory	68 RM	$4,043
721-312	Dormitory	68 RM	$3,393
771-312	Dormitorv	96 RM	$5.677

9c. Real Property Maintenance Backlog This Installation 53

10. Mission or Major Functions: An airlift wing with two C-l 30 squadrons; a fighter operations group with two A/0A-10 sauadrons: and two AFSOC sauadrons.

11. Outstandinq pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
POPE AIR FORCE BASE, NORTH CAROLINA	CONSOLIDATE C-130 CORROSION CONTROL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	211-159	TMKH933617R2	17,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-130 CORROSION CONTROL FACILITY	LS			12,682
CORROSION CONTROL FACILITY	SM	6,500	1,875	(12,188
AT/FP PHYSICAL SEUCRITY MEASURES	SM	6,500	76	(494
SUPPORTING FACILITIES				3,357
UTILITIES	LS			(892
PAVEMENTS	LS			(864:
SITE IMPROVEMENTS	LS			(659:
COMM SUPPORT	LS			(425:
DEMOLITION	SM	511	200	(102
CONTAMINATED SOIL REMOVAL	LS			(245;
INTERIM FACILITIES	LS			(170
SUBTOTAL				16,038
CONTINGENCY (5.0 %)				802
TOTAL CONTRACT COST				16,840
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				960
TOTAL REQUEST				17,800
TOTAL REQUEST (ROUNDED)				17,800

IO. Description of Proposed Construction: Reinforced concrete foundation and slab, structural steel frame and roof system, insulated metal walls, fire protection, all utilities and necessary support. Includes drainage system to collect hazardous waste run-off, paint booth, personnel support area, storage for hazmat and equip, sheet metal shop, and a mixing room. Includes AT/FP physical security IAW DOD minimum construction standards.

Air Conditioning: 10 KW

11. REQUIREMENT: 6,500 SM ADEQUATE: SM SUBSTANDARD: SM

PROJECT: Construct a C-130 corrosion control facility. (Current Mission)

REQUIREMENT: An adequate facility, properly sized and configured, is required to support C-130 corrosion control operations. These aircraft require complete painting every 2 years and spot painting on an as needed basis. The aircraft also require washing every 60 days and prior to any paint operations. Given 70 assigned aircraft, the required prep and wash operations will utilize the facility 192 duty days annually. Required painting operations will utilize the facility an additional 225 duty days. Given this workload, two bays are required to support the mission without experiencing aircraft downtime awaiting corrosion control maintenance.

CURRENT SITUATION: There is no corrosion control facility at Pope AFB. A nosedock has been issued a waiver for spot painting aircraft. The nosedock is not adequately sized and does not provide the required environmental controls for painting aircraft. The lack of ventilation makes paint operations difficult and poses a health risk to the technicians. Inadequate seals allow airborne chemicals to be released, posing a threat to the environment and personnel in the area of the nosedock while painting is accomplished. The nosedock lacks appropriate drainage, which poses an environmental threat. Aircraft preparation and washing operations are completed on an outdoor wash pad constructed in 1964. Because aircraft are exposed to the elements on this

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
POPE AIR FORCE BASE, NORTH CAROLINA	CONSOLIDATE C-130 CORROSION CONTROL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	211-159	TMKH933617R2	17,800

pad, washing operations are limited to times when weather permits. If the temperature is not between 40 and 80 degrees F, washing must be done at an indoor rack at another base, or delayed until weather conditions are within acceptable limits. While the winters are relatively mild, they are rainy. No wash operations can be accomplished during rainy conditions.

IMPACT IF NOT PROVIDED: Aircraft will be sent off-base for painting at an increasingly higher cost, making them unavailable for mission taskings. Support equipment will not receive adequate corrosion protection resulting in shorter lifespans.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Civil Engineering Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (alteration of an existing facility and new construction) was done. It indicates new construction is the only option that will meet operational requirements. A certificate of exemption was prepared. BASE CIVIL ENGINEER: Lt Col John R. Cawthorne (910) 394-2561. C-130 Corrosion Control Facility: 6,500 SM = 69,965 SF

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

POPE AIR FORCE BASE, NORTH CAROLINA

4. PROJECT TITLE	5. PROJECT NUMBER
CONSOLIDATE C-130 CORROSION CONTROL FACILITY	TMKH933617R2

12. SUPPLEMENTAL DATA: **Design Build**

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard of Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	712
(4) Construction Contract Award Date	02 Aug
(5) Construction Start	02 Sep
(6) Construction Completion	05 Jun
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

1. COMPONENT AIR FORCE	FY2002	MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA		4. COMMAND AIR MOBILITY COMMAND	5. AREA CONST COST INDEX 1.01

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNI	CIV	
a. As of 30 Sep 00	**312**	**2,399**	**549**				1	1	**58**	**3,320**
b. End FY **2005**	**307**	**2,353**	**550**				1	1	**58**	**3,270**

7. INVENTORY DATA $(000)

a. Total Acreage **5,422**	
b. Inventory Totals as of: 30 Sep 00	396.986
c. Authorization Not Yet In Inventory:	18,349
d. Authorization Requested In this Program:	**7,800**
e. Authorization Included In Following Program: (FY2003)	0
f. Planned in Next Four Program Years:	10,600
a. Remainina Deficiencv:	90,000
h. Grand Total:	**523,735**

8. Projects Requested in this Program: FY2002

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $(000)	DESIGN START	STATUS CMP
141-753	KC-1 35 Sq Ops/AMU	**3,800**	SM	**$7,800**	MAY 01	OCT 01
			Total	**$7,800**		

9a. Future Projects: Included in the Following Program: (FY2003) No Projects

9b. Future Projects: Typically Planned Next Four Years

113-321	Repair Drainage C-Ramp	68,192	SM	$10,600

9c. Real Property Maintenance Backlog This Installation **48**

10. Mission or Maior Functions: An air refuelina wing with four KC-135 sauadrons.

11. Outstanding pollution and safety (OSHA) deficiencies:

a. Air pollution	0
b. Water pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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