



Department of the Air Force

Military Construction and Family Housing Program

**Fiscal Year (FY) 2001
Budget Estimates**

**Justification Data Submitted to Congress
February 2000**

Table of Contents

**Table Of Contents
Fiscal Year (FY) 2001
President's Budget**

<u>General</u>	Page Number
Table of Contents	1
Program Summary	3
 <u>Military Construction</u>	
State Summary (List of Projects)	5
New Mission/Current Mission Exhibit.....	13
Installation Index	21
Special Program Considerations:	
Statements	23
Congressional Reporting Requirements	24
Research and Development	26
Third Party Financing	27
Appropriation Language	29
Inside the United States Construction Projects..	31
Outside the United States Construction Projects..	231
Unspecified Minor Construction	259
Planning and Design	261
Working Capital Funds Construction Projects.....	263

Inside the United States Construction Projects

1. COMPONENT		FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
AIR FORCE					
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
TYNDALL AIR FORCE BASE, FLORIDA			F-22 OPERATIONS FACILITY		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)		
2.72.19	171-212	XLWU003001	6,800		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
F-22 OPERATIONS FACILITY		SM	3,000		4,837
FLIGHT SIMULATOR		SM	2,000	1,683	(3,366)
FLIGHT ACADEMICS TRAINING		SM	1,000	1,471	(1,471)
SUPPORTING FACILITIES					1,609
UTILITIES		LS			(353)
SITE IMPROVEMENTS		LS			(353)
PAVEMENTS		LS			(353)
FORCE PROTECTION (MASONRY SCREEN WALL)		LS			(100)
PHYSICAL SECURITY (SAR)		LS			(150)
ADDITIONAL HVAC		LS			(300)
SUBTOTAL					6,446
TOTAL CONTRACT COST					6,446
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					367
TOTAL REQUEST					6,813
TOTAL REQUEST (ROUNDED)					6,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(17,600)
10. Description of Proposed Construction: Construct operations facility with reinforced foundation, split-faced block walls, standing seam metal roof, security and shielding provisions, environmental controls, communication networking and all necessary support. Facility will include simulator area with simulator bays, logistic support area, management space, and flight academic training space. Air Conditioning: 180 KW.					
11. REQUIREMENT: As required. PROJECT: Construct an F-22 operations facility. (New Mission) REQUIREMENT: Adequately sized, configured, and secure operations facility providing simulator and academic flight training is required to support the beddown of the next generation, multi-roled F-22 fighter at Tyndall AFB. Space is required to house the F-22 full mission trainer (FMT) simulators and support functions. FMTs provide the highest transfer of pilot skills from device level to the aircraft. Academics flight training space is required to provide the academic training and mission briefs in a secure environment. Due to the mission of the F-22, this operations facility must be shielded and have the necessary security provisions. Intense computer support for both the classrooms and the FMTs dictates additional space and HVAC for this facility. CURRENT SITUATION: Tyndall AFB does not have adequate or excess facilities to beddown the F-22. The F-22 will replace the F-15 in a phased program starting in FY03. The existing F-15 simulator facility is too small to accommodate F-22 simulator requirements. Extensive modifications would be required to support the F-22 FMTs, requiring F-15 simulator operations to cease for up to eight months. This is					

1. COMPONENT AIR FORCE	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TYNDALL AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE F-22 OPERATIONS FACILITY	5. PROJECT NUMBER XLWU003001	
<p>unacceptable due to the continued F-15 pilot training load. The F-15 academic facility is not large enough to support F-15 and F-22 training. The facility does not meet the security requirements required for F-22 training. Modifications to the existing academics facility would cause unacceptable disruption to F-15 training. Space cannot be shared between the two due to the F-22's classified mission training.</p> <p><u>IMPACT IF NOT PROVIDED:</u> F-22 fighter training unit cannot operate from Tyndall AFB without an operations facility available with the proper shielding and security measures to provide necessary simulator and academic training. F-22 pilot qualification training cannot be conducted and F-22 pilot training will be delayed. Development of pilot skills prior to transitioning to the aircraft cannot be done without FMT simulators.</p> <p><u>ADDITIONAL:</u> 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, add to and alter, and new construction) indicates that only the new construction option will satisfy operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Base Civil Engineer: Lt Col Arvil White III (850)283-3283. Operations Facility: 3,000 SM = 32,280 SF</p>		

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION
 TYNDALL AIR FORCE BASE, FLORIDA

4. PROJECT TITLE	5. PROJECT NUMBER
F-22 OPERATIONS FACILITY	XLWU003001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

Design, Bid, Build

- (1) Status:
 - (a) Date Design Started 99 JAN 26
 - (b) Parametric Cost Estimates used to develop costs Y
 - * (c) Percent Complete as of Jan 2000 15%
 - * (d) Date 35% Designed. 99 DEC 30
 - (e) Date Design Complete 00 SEP 10
 - (f) Energy Study/Life-Cycle analysis was/will be performed Y
- (2) Basis:
 - (a) Standard or Definitive Design - NO
 - (b) Where Design Was Most Recently Used - N/A
- (3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)
 - (a) Production of Plans and Specifications 408
 - (b) All Other Design Costs 204
 - (c) Total 612
 - (d) Contract 510
 - (e) In-house 102
- (4) Construction Start 01 JAN
- (5) Construction Completion 03 JAN
- (3a) Construction Contract Award Date 00 NOV

* 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)
F-22 FULL MOTION TRAINERS	3010	2002	17000
UNINTERRUPTED POWER SOURCE	3080	2002	600

1. COMPONENT		FY 2001 MILITARY CONSTRUCTION PROGRAM (computer generated)							2. DATE		
AIR FORCE											
3. INSTALLATION AND LOCATION					4. COMMAND			5. AREA CONST COST INDEX			
FORT STEWART, GEORGIA					AIR COMBAT COMMAND			0.82			
6. PERSONNEL STRENGTH		PERMANENT			STUDENTS			SUPPORTED			
		OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 99		13	53								66
b. End FY 2005		13	58								71
7. INVENTORY DATA (\$000)											
a. Total Acreage: (0)											
b. Inventory Total As Of: (30 SEP 99)											0
c. Authorization Not Yet In Inventory:											0
d. Authorization Requested In This Program:											4,920
e. Authorization Included In Following Program: (FY 2002)											0
f. Planned In Next Three Program Years:											0
g. Remaining Deficiency:											0
h. Grand Total:											4,920
8. PROJECTS REQUESTED IN THIS PROGRAM: FY 2001											
CATEGORY						COST	DESIGN	STATUS			
CODE	PROJECT TITLE	SCOPE				(\$000)	START	CMPL			
141-753	AIR SUPPORT OPERATIONS SQUADRON FACILITY	2,715 SM				4,920	JAN 00	SEP 00			
					TOTAL:	4,920					
9a. Future Projects: Included in the Following Program (FY 2002) NONE											
9b. Future Projects: Typical Planned Next Three Years:											
10. Mission or Major Functions: Consists of an Air Support Operations Squadron (ASOS) with a weather detachment.											
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
12. Real Property Maintenance Backlog This Installation											0

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
AIR FORCE				
3. INSTALLATION AND LOCATION		4. PROJECT TITLE		
FORT STEWART, GEORGIA		AIR SUPPORT OPERATIONS SQUADRON FACILITY		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)	
2.75.96	141-753	HACC003016	4,920	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
AIR SUPPORT OPERATIONS SQUADRON FACILITY	SM	2,715	1,198	3,253
SUPPORTING FACILITIES				1,405
UTILITIES	LS			(210)
PAVEMENTS	LS			(340)
SITE IMPROVEMENTS	LS			(180)
COVERED STORAGE FACILITY	SM	1,066	478	(510)
HAZARDOUS MATERIAL STORAGE	LS			(80)
COMMUNICATIONS PREWIRING	LS			(85)
SUBTOTAL				4,658
TOTAL CONTRACT COST				4,658
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				266
TOTAL REQUEST				4,924
TOTAL REQUEST (ROUNDED)				4,920
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(40)
10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls, roof system, fire protection system, utilities, site work, landscaping, parking and necessary support facilities.				
11. REQUIREMENT: 2,715 SM ADEQUATE: 0 SUBSTANDARD: 849 SM PROJECT: Construct an Air Support Operations Squadron facility. (Current Mission) REQUIREMENT: A facility to adequately support the administrative, training, vehicle and equipment maintenance, and storage requirements for the Air Support Operations Squadron (ASOS) located at Fort Stewart. The ASOS provides garrison weather support and close air support for Army divisions, brigades, and battalions. It also maintains mission-ready air support operations personnel, radios, vehicles, and mobility equipment deployable worldwide. CURRENT SITUATION: The ASOS at Fort Stewart currently operates out of four temporary wooden structures originally scheduled for demolition in 1981. None of the facilities have fire detection, suppression or alarm systems. All facilities are in an advanced state of deterioration with extensive wood rot and termite damage, and the electrical systems are inadequate for sophisticated electronic equipment. The vehicle compound is geographically separated from the facilities and it can only provide necessary shelter for 19 of 26 vehicles assigned to the squadron. Inadequate storage space for mobility/combat equipment forces personnel to use mechanical rooms and privately owned vehicles for storage. IMPACT IF NOT PROVIDED: The ASOS functions will continue to be geographically separated which negatively impacts unit effectiveness, efficiency and unit morale. Improper storage for vehicles and equipment				

1. COMPONENT AIR FORCE	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FORT STEWART, GEORGIA		
4. PROJECT TITLE AIR SUPPORT OPERATIONS SQUADRON FACILITY	5. PROJECT NUMBER HACC003016	
<p>will reduce their life cycle and potentially effect mission performance and support of ground units.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." Only one alternative exists to meet this operational requirement, therefore an economic analysis is not required. A Certificate of Exception has been prepared. Department of Public Works: Col Obidio Perez, Phone (912) 767-8356. Air Support Operations Squadron Facility: 2,715 SM = 29,224 SF</p>		

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION

FORT STEWART, GEORGIA

4. PROJECT TITLE

AIR SUPPORT OPERATIONS SQUADRON FACILITY

5. PROJECT NUMBER

HACC003016

12. SUPPLEMENTAL DATA:

Design, Bid, Build

a. Estimated Design Data:

- (1) Status:
 - (a) Date Design Started 00 JAN 26
 - (b) Parametric Cost Estimates used to develop costs Y
 - * (c) Percent Complete as of Jan 2000 15%
 - * (d) Date 35% Designed. 00 MAR 15
 - (e) Date Design Complete 00 SEP 01
 - (f) Energy Study/Life-Cycle analysis was/will be performed Y
 - (2) Basis:
 - (a) Standard or Definitive Design - YES
 - (b) Where Design Was Most Recently Used - FT BENNI
 - (3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)
 - (a) Production of Plans and Specifications 295
 - (b) All Other Design Costs 148
 - (c) Total 443
 - (d) Contract 369
 - (e) In-house 74
 - (4) Construction Start 01 MAR
 - (5) Construction Completion 02 MAR
 - (3a) Construction Contract Award Date 01 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)
WEATHER EQUIPMENT	3080	2001	40

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROGRAM (computer generated)									2. DATE
AIR FORCE										
3. INSTALLATION AND LOCATION	MOODY AIR FORCE BASE, GEORGIA			4. COMMAND	AIR COMBAT COMMAND			5. AREA CONST COST INDEX	0.83	
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 99	409	3656	2759				16	90	64	6,994
b. End FY 2005	368	2759	368				16	90	64	3,665
7. INVENTORY DATA (\$000)										
a. Total Acreage:	(5,442)									
b. Inventory Total As Of:	(30 SEP 99)									5,185,256
c. Authorization Not Yet In Inventory:										0
d. Authorization Requested In This Program:										2,500
e. Authorization Included In Following Program:	(FY 2002)									0
f. Planned In Next Three Program Years:										15,500
g. Remaining Deficiency:										22,810
h. Grand Total:										5,226,066
8. PROJECTS REQUESTED IN THIS PROGRAM: FY 2001										
CATEGORY	PROJECT TITLE			SCOPE	COST (\$000)	DESIGN STATUS				
CODE						START	CMPL			
841-165	WATER TREATMENT PLANT			LS	2,500	JAN 99	SEP 00			
					TOTAL:	2,500				
9a. Future Projects: Included in the Following Program (FY 2002) NONE										
9b. Future Projects: Typical Planned Next Three Years:										
610-128	CONSOLIDATED BASE SUPPORT CENTER			4,670 SM	7,200					
721-312	DORMITORY (144 RM)			144 RM	8,300					
10. Mission or Major Functions: A composite wing with two F-16 squadrons, an A/OA-10 squadron, and a rescue wing with an HH-60 squadron and an HC-130 squadron. A training squadron of (AETC) T-38C aircraft will replace the A/OA-10 squadron in the near future.										
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	
12. Real Property Maintenance Backlog This Installation								16,304		

1. COMPONENT		FY 2001 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
AIR FORCE		(computer generated)			
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
MOODY AIR FORCE BASE, GEORGIA			WATER TREATMENT PLANT		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)		
2.74.56	841-165	QSEU983003	2,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
WATER TREATMENT PLANT		LS			2,272
SUPPORTING FACILITIES					85
UTILITIES		LS			(10)
PAVEMENTS		LS			(30)
SITE IMPROVEMENTS		LS			(30)
FORCE PROTECTION		LS			(15)
SUBTOTAL					2,357
TOTAL CONTRACT COST					2,357
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					134
TOTAL REQUEST					2,491
TOTAL REQUEST (ROUNDED)					2,500
10. Description of Proposed Construction: Construct a 3 million liter per day disinfection and filtration water treatment plant to comply with the Surface Water Treatment Rule (SWTR) and reduce total trihalomethan(TTHMs)to within the Safe Drinking Water Act (SDWA) maximum contaminant level. Force protection/anti-terrorism measures include fencing and a pre-engineered covered structure.					
11. REQUIREMENT: 1 LS ADEQUATE: 0 SUBSTANDARD: 1 LS <u>PROJECT:</u> Construct a water treatment plant. (Current Mission) <u>REQUIREMENT:</u> This is a Level I environmental compliance requirement. Moody AFB is out of compliance with the SWTR and the Georgia Rules for Safe Drinking Water. Many of Moody's wells are under the influence of surface water which mandates a more stringent treatment than for standard wells. The new treatment plant will produce water that will comply with the SDWA/SWTR. <u>CURRENT SITUATION:</u> Moody AFB needs a safe water source to comply with the SWTR. Analysis of Moody's production wells on the main base and the munitions areas show surface water contamination. This ground water under the direct influence (GWUDI) of surface water was cited in a 2/7/96 letter of non-compliance from the Georgia Department of Natural Resources to Base Civil Engineer. New well construction has been tried and the new well water also tested positive for GWUDI. Due to these results Moody AFB must construct a surface water treatment plant capable of removing organisms such as giardia and cryptosporidium as well as organic material. There are dead ends in the main base water distribution system, which result in zero residual chlorine and high Total Trihalomethanes concentration. This is a violation of the SDWA and a public health concern. In addition, the facilities on the perimeter of Moody AFB are currently not connected to					

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	
3. INSTALLATION AND LOCATION		
MOODY AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE	5. PROJECT NUMBER	
WATER TREATMENT PLANT	QSEU983003	
<p>the base water supply and have their own water wells. These wells have also been plagued with the same compliance problems. Because of these health and other aesthetic problems these facilities use bottled water for drinking.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Moody AFB will not comply with the SDWA and will again face enforcement action. Failure to construct the treatment plant and distribution loop will preclude removing microscopic organisms and organic material and will prevent maintaining proper chlorine residuals and consequently minimizing the TTHM concentration. Base personnel will continue to consume water contaminated with these microscopic, disease carrying organisms and THMs.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." Base Civil Engineer: Lt Col Guy Wells, (912) 333-3601.</p>		

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		
3. INSTALLATION AND LOCATION		
MOODY AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE		5. PROJECT NUMBER
WATER TREATMENT PLANT		QSEU983003
12. SUPPLEMENTAL DATA: Design, Bid, Build		
a. Estimated Design Data:		
(1) Status:		
(a) Date Design Started		99 JAN 26
(b) Parametric Cost Estimates used to develop costs		Y
* (c) Percent Complete as of Jan 2000		35%
* (d) Date 35% Designed.		99 DEC 16
(e) Date Design Complete		00 SEP 15
(f) Energy Study/Life-Cycle analysis was/will be performed		Y
(2) Basis:		
(a) Standard or Definitive Design -		NO
(b) Where Design Was Most Recently Used -		N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)		
(a) Production of Plans and Specifications		150
(b) All Other Design Costs		75
(c) Total		225
(d) Contract		187
(e) In-house		38
(3a) Construction Contract Award Date		01 JAN
(4) Construction Start		01 MAR
(5) Construction Completion		02 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: N/A		

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROGRAM (computer generated)									2. DATE
AIR FORCE										
3. INSTALLATION AND LOCATION	HICKAM AIR FORCE BASE, HAWAII			4. COMMAND			5. AREA CONST COST INDEX			1.45
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 99	684	2545	1926				166	260	17	6,598
b. End FY 2005	683	2583	1912				166	260	17	6,621
7. INVENTORY DATA (\$000)										
a. Total Acreage:	(2,851)									
b. Inventory Total As Of:	(30 SEP 99)									7,772,958
c. Authorization Not Yet In Inventory:										0
d. Authorization Requested In This Program:										4,620
e. Authorization Included In Following Program:	(FY 2002)									41,673
f. Planned In Next Three Program Years:										12,900
g. Remaining Deficiency:										241,487
h. Grand Total:										8,073,638
8. PROJECTS REQUESTED IN THIS PROGRAM: FY 2001										
CATEGORY	PROJECT TITLE			SCOPE	COST (\$000)	DESIGN STATUS				
CODE						START	CMPL			
211-111	UPGRADE HANGAR COMPLEX			34,065 SM	4,620	JAN 99	AUG 00			
					TOTAL:	4,620				
9a. Future Projects: Included in the Following Program (FY 2002)										
610-284	REPAIR HQ PACAF BUILDING				LS 27,000					
812-225	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM				LS 14,673					
					TOTAL:	41,673				
9b. Future Projects: Typical Planned Next Three Years:										
113-321	REPAIR AIRFIELD PAVEMENT			230,200 SM	10,800					
842-245	UPGRADE WATER DISTRIBUTION MAINS			3,630 LM	2,100					
10. Mission or Major Functions: The host air base wing supports C-135B/C aircraft and hosts Headquarters, Pacific Air Forces. The installation also hosts an Air National Guard wing consisting of an F-15A/B squadron, an air refueling squadron (KC-135), and an airlift squadron (C-130H). Other major activities include an Air Intelligence Agency intelligence group and an Air Mobility Support 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	
12. Real Property Maintenance Backlog This Installation									27,145	

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
AIR FORCE				
3. INSTALLATION AND LOCATION		4. PROJECT TITLE		
HICKAM AIR FORCE BASE, HAWAII		UPGRADE HANGAR COMPLEX		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST(\$000)	
2.75.96	211-111	KNMD983001	4,620	

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
UPGRADE HANGAR COMPLEX				4,103
UPGRADE WATER DELUGE SYSTEM	SM	10,059	205	(2,062)
CLOSED-HEAD AUTO-SPRINKLERS	SM	24,006	85	(2,041)
SUPPORTING FACILITIES				250
UTILITIES	LS			(150)
CATHODIC PROTECTION	LS			(100)
SUBTOTAL				4,353
TOTAL CONTRACT COST				4,353
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				283
TOTAL REQUEST				4,636
TOTAL REQUEST (ROUNDED)				4,620

10. Description of Proposed Construction: Install deluge and wet sprinkler valves, detectors, sprinklers, pumps, controls, water storage tank, automatic wet sprinkler system, floor drains, oil-water separator, emergency exits, and all necessary support.

11. REQUIREMENT: 34,065 SM ADEQUATE: 0 SUBSTANDARD: 34,065 SM
PROJECT: Upgrade hangar complex. (Current Mission)
REQUIREMENT: Provide an adequate fire detection and protection system to meet current fire protection standards for aircraft hangars and associated administrative and storage areas.
CURRENT SITUATION: The existing facility was constructed in 1941. Fire trucks are required to stand by whenever fueled aircraft are parked in the hangar. There is no fire protection system in administrative and storage areas. The existing building systems cannot support a new fire protection system without major upgrades.
IMPACT IF NOT PROVIDED: Personnel and aircraft valued at millions of dollars will continue to be at risk during maintenance. The adjacent maintenance complex and stored war reserve materiel will also continue to be at risk due to the lack of a fire protection system. Fire trucks used to protect hangared aircraft will be out of position for rapid response to airfield emergencies, increasing response time.
ADDITIONAL: This project meets the scope/criteria specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of options was performed. Only one option meets operational requirements. Therefore a full economic analysis was not performed. A certificate of exception has been prepared. BASE CIVIL ENGINEER: Lt Col Torchia, (808) 449-1660. Upgrade Water Deluge System: 10,059 SM = 107,631 SF; Closed-Head Auto Sprinklers: 24,006 SM = 256,864 SF.

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		
3. INSTALLATION AND LOCATION		
HICKAM AIR FORCE BASE, HAWAII		
4. PROJECT TITLE		5. PROJECT NUMBER
UPGRADE HANGAR COMPLEX		KNMD983001
12. SUPPLEMENTAL DATA:		
a. Estimated Design Data:		Design, Bid, Build
(1) Status:		
(a) Date Design Started		99 JAN 29
(b) Parametric Cost Estimates used to develop costs		Y
* (c) Percent Complete as of Jan 2000		15%
* (d) Date 35% Designed.		99 DEC 30
(e) Date Design Complete		00 AUG 15
(f) Energy Study/Life-Cycle analysis was/will be performed		Y
(2) Basis:		
(a) Standard or Definitive Design -		NO
(b) Where Design Was Most Recently Used -		N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)		
(a) Production of Plans and Specifications		277
(b) All Other Design Costs		139
(c) Total		416
(d) Contract		371
(e) In-house		45
(3a) Construction Contract Award Date		00 DEC
(4) Construction Start		01 JAN
(5) Construction Completion		02 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 2001 MILITARY CONSTRUCTION PROGRAM (computer generated)								2. DATE	
AIR FORCE											
3. INSTALLATION AND LOCATION				4. COMMAND				5. AREA CONST COST INDEX			
MOUNTAIN HOME AIR FORCE BASE, IDAHO				AIR COMBAT COMMAND				1.11			
6. PERSONNEL		PERMANENT			STUDENTS			SUPPORTED			
STRENGTH		OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 99		472	3944	426				13	95	69	5,019
b. End FY 2005		467	3902	425				13	95	60	4,962
7. INVENTORY DATA (\$000)											
a. Total Acreage: (6,844)											
b. Inventory Total As Of: (30 SEP 99) 6,828,200											
c. Authorization Not Yet In Inventory: 0											
d. Authorization Requested In This Program: 10,125											
e. Authorization Included In Following Program: (FY 2002) 20,948											
f. Planned In Next Three Program Years: 7,300											
g. Remaining Deficiency: 53,330											
h. Grand Total: 6,919,903											
8. PROJECTS REQUESTED IN THIS PROGRAM: FY 2001											
CATEGORY						COST		DESIGN STATUS			
<u>CODE</u>		<u>PROJECT TITLE</u>				<u>SCOPE</u>		<u>(\$000)</u>		<u>START</u> <u>CMPL</u>	
179-481		ENHANCED TRAINING RANGE, IDAHO PHIII				LS		10,125		TURN KEY	
						TOTAL:		10,125			
9a. Future Projects: Included in the Following Program (FY 2002)											
113-321		AIRCRAFT PARKING APRON				72,500 SM		13,648			
141-786		MOBILITY PROCESSING CENTER				3,850 SM		7,300			
						TOTAL:		20,948			
9b. Future Projects: Typical Planned Next Three Years:											
740-674		ADD TO AND ALTER FITNESS CENTER				2,705 SM		7,300			
10. Mission or Major Functions: A composite wing with one F-16 squadron; one F-15C/D squadron, one F-15E squadron, one KC-135R squadron, a B-1B squadron, and the AEF Battlelab.											
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	
12. Real Property Maintenance Backlog This Installation										18,410	

1. COMPONENT		FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
AIR FORCE					
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
MOUNTAIN HOME AIR FORCE BASE, IDAHO			ENHANCED TRAINING RANGE, IDAHO PHIII		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)		
2.76.04	179-481	QYZH013000	10,125		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
ENHANCED TRAINING RANGE, IDAHO PHIII		LS			9,580
NO DROP TARGET SITES		LS			(2,045)
EMITTER SITES		LS			(4,700)
ROADS		LS			(2,835)
SUBTOTAL					9,580
TOTAL CONTRACT COST					9,580
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					546
TOTAL REQUEST					10,126
TOTAL REQUEST (ROUNDED)					10,125
10. Description of Proposed Construction: Construct no-drop target sites, emitter sites, and roads to the emitter sites.					
11. REQUIREMENT: As required.					
<u>PROJECT:</u> Construct Enhanced Training Range, Idaho Phase III (New Mission)					
<u>REQUIREMENT:</u> An adequate training range is required to allow the F-16, F-15, KC-135 and B-1B crews to train together in real world battle situations. To provide realistic training, the range requires widely separated threat emitter sites and simulated target sites constructed to resemble target complexes. All-weather roads are necessary to provide immediate access for maintenance and repair of range facilities and equipment. Security fencing is required around the simulated target and emitter sites.					
<u>CURRENT SITUATION:</u> This project will consolidate a wide array of functions now conducted at various training ranges and eliminate the costly workarounds inherent with non-essential flying hours required to transit to and from the ranges. Existing training ranges, airspace and emitter sites offer limited realism, flexibility and quality. Remote ranges require transit time that expends limited flying hours and funding, yet yields minimal training value. An integrated set of training facilities incorporating Saylor Creek Range and the existing Military Operations Areas will provide the flexibility to vary attacks and tactics, present aircrews with challenging, realistic battlefield situations, and allow for ready access on a day-to-day basis. This is Phase III of a three-phase project.					
<u>IMPACT IF NOT PROVIDED:</u> Continuation of training without improvements will not provide the enhancements needed by aircrews to fly against realistic targets under battlefield conditions. The Air Force will					

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION
MOUNTAIN HOME AIR FORCE BASE, IDAHO

4. PROJECT TITLE	5. PROJECT NUMBER
ENHANCED TRAINING RANGE, IDAHO PHIII	QYZH013000

continue to expend limited funds transiting aircraft to and from the range while sacrificing training time.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." All know alternative options were considered during the developemnt 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 Kenneth Shelton, (208) 828-6353.

1. COMPONENT AIR FORCE	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE				
3. INSTALLATION AND LOCATION MOUNTAIN HOME AIR FORCE BASE, IDAHO						
4. PROJECT TITLE ENHANCED TRAINING RANGE, IDAHO PHIII	5. PROJECT NUMBER QYZH013000					
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <table data-bbox="373 627 1411 691"> <tr> <td>(a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td>N/A</td> </tr> </table> <p>(3) Design Allowance 506</p> <p>(3a) Construction Contract Award Date 01 JAN</p> <p>(4) Construction Start 01 MAY</p> <p>(5) Construction Completion 02 OCT</p> <p>(6) Energy Study/Life-Cycle analysis was/will be performed NA</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p>			(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -	N/A
(a) Standard or Definitive Design -	NO					
(b) Where Design Was Most Recently Used -	N/A					

1. COMPONENT		FY 2001 MILITARY CONSTRUCTION PROGRAM (computer generated)						2. DATE			
AIR FORCE											
3. INSTALLATION AND LOCATION						4. COMMAND			5. AREA CONST		
SCOTT AIR FORCE BASE, ILLINOIS						AIR MOBILITY			COST INDEX		
						COMMAND			1.16		
6. PERSONNEL		PERMANENT			STUDENTS			SUPPORTED			
STRENGTH		OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 99		1714	3888	2575				275	770	584	9,806
b. End FY 2005		1704	3659	2557				275	770	584	9,549
7. INVENTORY DATA (\$000)											
a. Total Acreage: (3,230)											
b. Inventory Total As Of: (30 SEP 99) 343,327											
c. Authorization Not Yet In Inventory: 2,700											
d. Authorization Requested In This Program: 3,830											
e. Authorization Included In Following Program: (FY 2002) 0											
f. Planned In Next Three Program Years: 0											
g. Remaining Deficiency: 98,700											
h. Grand Total: 448,557											
8. PROJECTS REQUESTED IN THIS PROGRAM: FY 2001											
CATEGORY											
<u>CODE</u>		<u>PROJECT TITLE</u>				<u>SCOPE</u>		<u>COST (\$000)</u>		<u>DESIGN STATUS</u>	
										<u>START</u> <u>CMPL</u>	
442-257		MUNITIONS STORAGE/LAND ACQUISITION				1,010 SM		3,830		TURN KEY	
						TOTAL:		3,830			
9a. Future Projects: Included in the Following Program (FY 2002) NONE											
9b. Future Projects: Typical Planned Next Three Years:											
10. Mission or Major Functions: Headquarters United States Transportation Command;Headquarters Air Mobility Command;Tanker/Airlift Control Center;HQ Air Force Command,Control,Communications and Computer Agency;Air Weather Service;USAF Environmental Technical Applications Center;an airlift wing with a C-9 airlift squadron and a C-21 airlift squadron; an Air Force Reserve C-9 associate aeromedical airlift wing; Air Force Materiel Commands Communications Systems Program Office and a major USAF 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											
12. Real Property Maintenance Backlog This Installation										42,377	

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
AIR FORCE				
3. INSTALLATION AND LOCATION	4. PROJECT TITLE			
SCOTT AIR FORCE BASE, ILLINOIS	MUNITIONS STORAGE/LAND ACQUISITION			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)	
4.18.96	442-257	VDYD000001	3,830	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
MUNITIONS STORAGE/LAND ACQUISITION				1,978
MUNITIONS STORAGE	SM	800	2,065	(1,652)
INSPECTION AND MAINTENANCE	SM	210	1,552	(326)
SUPPORTING FACILITIES				1,645
UTILITIES	LS			(270)
PAVEMENTS	LS			(250)
SITE IMPROVEMENTS	LS			(250)
COMM SUPPORT	LS			(25)
LAND ACQUISITION	LS			(850)
SUBTOTAL				3,623
TOTAL CONTRACT COST				3,623
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				207
TOTAL REQUEST				3,830
TOTAL REQUEST (ROUNDED)				3,830
10. Description of Proposed Construction: A munitions storage facility consisting of multicubical type segregated magazine of reinforced concrete having 30 bays, concrete floor and a frangible and non-flammable roof and a munitions inspection and maintenance area. Also included are roads, parking, fencing, security lighting and alarms, and necessary support. Air Conditioning: 20 KW.				
11. REQUIREMENT: 800 SM ADEQUATE: 0 SUBSTANDARD: 38 SM				
<u>PROJECT:</u> Construct a munitions storage facility and land acquisition. (Current Mission)				
<u>REQUIREMENT:</u> Adequate munitions storage and inspection area is required to support training and operational requirements. Space must be provided to support the security police ground defense unit, the explosives ordnance disposal team, HQ AMC combat controllers, and training needs of various base organizations. Location should conform to quantity distance criteria for minimum blast and fragmentation distances from inhabited buildings and public roadways.				
<u>CURRENT SITUATION:</u> The existing munitions storage/training facility is too small. This lack of space requires munitions to be stored at Little Rock AFB and an army depot 30 miles away. The existing location does not meet quantity-distance criteria for minimum blast and fragmentation distances to inhabited buildings (1,250 feet; nearest building is 250 feet) and public roadways (750 feet; nearest road is 100 feet). There is no available public space on base to construct this facility. Therefore, land must be purchased as part of this project.				
<u>IMPACT IF NOT PROVIDED:</u> Mission requirements for training, mobility, and operations will continue to be adversely affected by depending on other				

1. COMPONENT AIR FORCE	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SCOTT AIR FORCE BASE, ILLINOIS		
4. PROJECT TITLE MUNITIONS STORAGE/LAND ACQUISITION	5. PROJECT NUMBER VDYD000001	
<p>installations, distant from the base, for munitions storage.</p> <p><u>ADDITIONAL:</u> 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 (status quo 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. BASE CIVIL ENGINEER: Lt Col James Brackett (618) 256-2701.</p> <p>Munitions Storage: 800 SM = 8,611 SF; Inspection and Maintenance: 210 SM = 2,260 SF</p>		

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		
3. INSTALLATION AND LOCATION		
SCOTT AIR FORCE BASE, ILLINOIS		
4. PROJECT TITLE	5. PROJECT NUMBER	
MUNITIONS STORAGE/LAND ACQUISITION	VDYD000001	
12. SUPPLEMENTAL DATA:		
a. Estimated Design Data:		
(1) Project to be accomplished by design-build procedures		
(2) Basis:		
(a) Standard or Definitive Design -		NO
(b) Where Design Was Most Recently Used -		N/A
(3) Design Allowance 215		
(3a) Construction Contract Award Date		01 JUN
(4) Construction Start		01 JUL
(5) Construction Completion		02 JUN
(6) Energy Study/Life-Cycle analysis was/will be performed		Y
b. Equipment associated with this project will be provided from other appropriations: N/A		

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROGRAM (computer generated)									2. DATE
AIR FORCE										
3. INSTALLATION AND LOCATION	BARKSDALE AIR FORCE BASE, LOUISIANA			4. COMMAND	AIR COMBAT COMMAND			5. AREA CONST COST INDEX	0.83	
6. PERSONNEL	PERMANENT			STUDENTS			SUPPORTED			
STRENGTH	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 99	832	4752	1034				64	73	322	7,077
b. End FY 2005	833	4753	1033				64	73	322	7,078
7. INVENTORY DATA (\$000)										
a. Total Acreage:	(22,361)									
b. Inventory Total As Of:	(30 SEP 99)									3,006,105
c. Authorization Not Yet In Inventory:										50,680
d. Authorization Requested In This Program:										6,390
e. Authorization Included In Following Program:	(FY 2002)									0
f. Planned In Next Three Program Years:										21,000
g. Remaining Deficiency:										109,100
h. Grand Total:										3,193,275
8. PROJECTS REQUESTED IN THIS PROGRAM: FY 2001										
CATEGORY						COST	DESIGN STATUS			
CODE	PROJECT TITLE			SCOPE		(\$000)	START	CPL		
721-312	DORMITORY (96 RM)			96 RM		6,390	JAN 00	SEP 00		
TOTAL:						6,390				
9a. Future Projects: Included in the Following Program (FY 2002) NONE										
9b. Future Projects: Typical Planned Next Three Years:										
211-179	B-52H FUEL CELL MAINTENANCE DOCK			5,214 SM		14,200				
721-312	DORMITORY (96 RM)			96 RM		6,800				
10. Mission or Major Functions: Headquarters Eighth Air Force; a bomb wing with three B-52 squadrons, one of which is responsible for training B-52 aircrews; and an Air Force Reserve wing with an A/OA-10 squadron and a B-52 squadron.										
11. Outstanding pollution and safety (OSHA) deficiencies:										
a. Air pollution:										0
b. Water pollution:										0
c. Occupational safety and health:										0
d. Other Environmental:										0
12. Real Property Maintenance Backlog This Installation										
										47,276

1. COMPONENT	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
AIR FORCE					
3. INSTALLATION AND LOCATION		4. PROJECT TITLE			
BARKSDALE AIR FORCE BASE, LOUISIANA		DORMITORY (96 RM)			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)		
2.75.96	721-312	AWUB033010	6,390		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
DORMITORY (96 RM)		SM	3,200	1,512	4,838
SUPPORTING FACILITIES					1,194
UTILITIES		LS			(255)
PAVEMENTS		LS			(285)
SITE IMPROVEMENTS		LS			(275)
DEMOLITION		SM	3,078	123	(379)
SUBTOTAL					6,032
TOTAL CONTRACT COST					6,032
SUPERVISION, INSPECTION AND OVERHEAD (6%)					362
TOTAL REQUEST					6,394
TOTAL REQUEST (ROUNDED)					6,390
10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, steel frame, brick veneer exterior walls, sound attenuation, and sloped roofs. Includes lounge areas, laundries, room-bath-kitchen-room modules, storage, exterior site work, communication requirements, fire protection systems, and all supporting facilities. Work includes parking and demolition of one facility (3,078 SM). Air Conditioning: 175 KW. Grade Mix: 96 E1-E4.					
11. REQUIREMENT: 1,305 RM ADEQUATE: 636 RM SUBSTANDARD: 144 RM PROJECT: Construct a 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 AF objective is for dormitories to meet the one-plus-one design standard. This project is in accordance with the Air Force Dormitory Master Plan. CURRENT SITUATION: As verified by the Air Force Dormitory Master Plan, the base has insufficient facilities to adequately accomodate 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, and career satisfaction for unaccompanied enlisted personnel. ADDITIONAL: This project does meet the criteria/scope specified in Air					

1. COMPONENT AIR FORCE	FY 2001 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		
4. PROJECT TITLE DORMITORY (96 RM)	5. PROJECT NUMBER AWUB033010	
<p>Force Handbook 32-1084, "Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, and status quo operations. 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. FY 1998 Unaccompanied Housing RPM Conducted: \$4,700K. FY 1999 Unaccompanied Housing RPM Conducted: \$86K. Future Unaccompanied Housing RPM conducted (estimated): FY00: \$2,300K; FY01: 2,100K; FY02: \$173K; FY03: \$275K. Base Civil Engineer: Lt Col Irv Lee , Phone (318) 456-4856. Dormitory 3,200 SM = 34,500 SF.</p>		