1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
POPE AIR FORCE BASE NORTH CAROLINA	AIR MOBILITY COMMAND	0.88

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
AS OF 30 SEP 03	619	*4902*	*593*	*2*	*21*	*0*	*15*	*142*	*126*	6,42
END FY 2008	*623*	*5065*	*580*	*2*	*21*	*0*	*15*	147	126	6,57

7. INVENTORY DATA ($000)

a. Total Acreage:	*1,875*	
b. Inventory Total as of : (30 Sep 03)		714,22
c. Authorization Not Yet in Inventory:		47,37
d. Authorization Requested in this Program:		15,15
e. Authorization Included in the Following Program: (FY 2006)		7,20
f. Planned in Next Three Years Program:		60,52
g. Remaining Deficiency:		65,50
h. Grand Total:		909,97

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
171-475	CCS - Indoor Firing Range	1,025 SM	2,200	Mar 03	Sep 04
141-454	Combat Control School	*5,036* SM	12,950		Design - Build
		Total	*15,150*		

9a. Future Projects: Included in the Following Program: (FY2006)

218-712	AGE Facility	*2,800* SM	*7,200*
		Total	*7,200*

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

721-312	Dormitory (120 Rm)	*120* RM	*12,000*
141-454	Special Operations Facility	1,578 SM	*3,325*
217-713	A-10 ECM Maintenance Facility	*2,600* SM	*4,800*
149--692	Fire Station I Control Tower	4,093 SM	*14,000*
141-753	Air Support Operations Squadron Fac	*4,750* SM	*8,500*
211-152	A-I 0 Aircraft Maintenance Facility	*2,200* SM	5,100
730-441	Education - PME Center I Library	*5,324*	*12,800*
		Total	*60,525*

9c. Real Property Maintenance Backlog This Installation ($M) *12*

10. Mission or Major Functions: An airlift wing with two C-130 squadrons; a fighter operations group with two A/0A-10 squadrons; and two AFSOC 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

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1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
POPE AIR FORCE BASE, NORTH CAROLINA	COMBAT CONTROL SCHOOL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	141-454	TMKH023004	12,950

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
COMBAT CONTROL SCHOOL				9,431
SCHOOL BUILDING	SM	3,281	1,597	(5,239)
FITNESS BUILDING	SM	631	1,817	(1,147)
INDOOR AQUATIC TRAINING FACILITY	SM	1,124	1,921	(2,159)
RAPPEL/CLIMBING TONER	LS			(300)
RELOCATE POPE PARK	LS			(500)
ANTITERRORISM FORCE PROTECTION	LS			(86)
SUPPORTING FACILITIES				2,235
UTILITIES	LS			(475)
PAVEMENTS	LS			(568)
SITE IMPROVEMENTS	LS			(900)
DEMOLITION	LS			(200)
COMMUNICATIONS	LS			(100)
SUBTOTAL				11,666
CONTINGENCY (5.0 %)				583
TOTAL CONTRACT COST				12,249
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				698
TOTAL REQUEST				12,948
TOTAL REQUEST (ROUNDED)				12,950
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(375)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, steel frame, split face concrete block exterior, standing seam metal roof and all necessary and required work associated with this project. Antiterrorism force protection measures will comply with minimum DoD Force Protection Construction Standards.

11. REQUIREMENT: 5,606 SM ADEQUATE: 0 SM SUBSTANDARD: 1,116 SM

PROJECT: Construct Combat Control School (New Mission)

REQUIREMENT: The USAF has validated requirements to produce 139 Combat Control Apprentice graduates annually. This requires 172 students to start the course to meet graduation numbers. Current facilities constrain student entries to a maximum of 96 entries, with production further limited by attrition to approximately 66 students, or less than 48% of requirements. Facility needs include classrooms, labs spaces, offices for instructors, supply storage and office, equipment storage, radio maintenance room, parachute shop, a vehicle maintenance shop, a gymnasium, a rappel and climbing tower, an aquatic training facility, an indoor firing range, and secure parking space for government vehicles. Demolition involves Pope Park's pavements, latrines and some storage facilities.

CURRENT SITUATION: The Joint Special Operations Command requires the real property that

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
POPE AIR FORCE BASE, NORTH CAROLINA	COMBAT CONTROL SCHOOL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	141-454	TMKH023004	12,950

the CCS occupies for expansion. This, coupled with the constrained course capacity of this USAF designated Critical AFSC, requires relocation and a new facility to conduct the mission. USAF approved Trained Personnel Requirements (TPR) call for 172 students to begin the CCS annually to meet a graduation need of 139 Combat Control Apprentice students. As a complex special operations career field, CCT requires all students to be trained and highly proficient in all aspects of forward air traffic control, airborne, air-land, and waterborne infiltration, weapons and field tactics. Students are also trained on tactical communication systems, airfield marking and electronic navigation aids, weather observation, tactical and all terrain vehicle operations, and explosive ordnance disposal to remove obstacles and unexploded munitions on airfields. Current aquatic training is limited due to scheduling through the Fort Bragg owned and operated year round pools. Even as a school, the priority for training goes to US Army units first, causing the school to often lose valuable and required training. Small arms ranges are also prioritized to Army units, causing further training difficulties. Other supplemental courses conducted at the facility include three Survey Courses annually (12 students per), three Jumpmaster Courses (24 students per), and two Team Leader Courses (18 students per). These courses provide unique CCT supplemental training that is essential for continued successful operational employment of CCT. All graduates of this course are assigned to AF Special Operations Command (AFSOC) to conduct a wide range of critical special operations missions that have been singled out by leadership as essential to the successful application of airpower.

IMPACT IF NOT PROVIDED: Begining in FY 04, the school must increase training capacity to meet a USAF Chief of Staff directive and the current facilities will not provide enough space to train the additional student populations. Over $3M of combat equipment supplies and parachute systems will not have adequate, or properly controlled, storage and working areas. The additional instructors will not have adequate private spaces fox counseling students. If not funded, the Combat Control School will be prevented from increasing the production of Combat Controllers to meet Air Force warfighter needs in the current global war on terrorism, as well as any future requirements.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. A preliminary economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project will also construct a replacement recreation park that it will displace. Base Civil Engineer: Lt Col James E. Welter, (910) 394-2561. US Special Operations Command to provide $4.3M to fund this project since USOCOM requirements displaces the current combatant controller school. 5036 SM = 54,207 SF. Design Build - Design Cost (4% of subtotal cost): $466,000

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
POPE AIR FORCE BASE, NORTH CAROLINA	COMBAT CONTROL SCHOOL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	141-454	TMKH023004	12,950

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 -

(3) All Other Design Costs 350

(4) Construction Contract Award 05 MAY

(5) Construction Start 05 JUN

(6) Construction Completion 06 JUN

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE	3080	2005	175
COMMUNICATIONS EQUIPMENT	3080	2005	200

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION POPE AIR FORCE BASE, NORTH CAROLINA	4. PROJECT TITLE ccs - INDOOR FIRING RANGE	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
05796	171-475	TMKH023004P3	2,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
ccs - INDOOR FIRING RANGE				1,443
FIRING RANGE	SM	1,025	1,400	(1,435)
FORCE PROTECTION	LS			(8)
SUPPORTING FACILITIES				538
UTILITIES	LS			(328)
PAVEMENTS	LS			(85)
SITE IMPROVEMENTS	LS			(91)
COMMUNICATIONS	LS			(34)
SUBTOTAL				1,981
CONTINGENCY (5.0 %)				99
TOTAL CONTRACT COST				2,080
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				119
TOTAL REQUEST				2,199
TOTAL REQUEST (ROUNDED)				2,200

10. Description of Proposed Construction: Project constructs an indoor firing range with 25 meter firing lanes, weapons and ammunition vault and will support the firing of 9mm, 5.56 mm and 7.62 mm ammunition. Includes AT/FP physical security IAW DoD minimum construction standards and fire supression/detection IAW Mil Handbook 1008C.

11. REQUIREMENT: 1,025 ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: ccs - Indoor Firing Range (Current Mission)

REQUIREMENT: Project requires an indoor firing range be constructed with 25 meter firing lanes. In addition, the facility is to be designed to support 9mm, 5.56 sun and 7.62 mm ammunition. The facility will also be designed to house a weapons and ammunition vault.

CURRENT SITUATION: The Combat Control School currently uses outdoor ranges on Ft Bragg. During periods of inclement weather, these ranges are not able to be efficiently used nnd neither Ft Bragg nor Pope AFB have any indoor ranges available for use. In addition, the weapons ranges on Ft Bragg are usually full and must be scheduled months in advance. This does not allow any flexibility in the training schedule and causes unnecessary problems for the school. Additionally, significant time is lost during transit to and from the ranges located on Fort Bragg.

IMPACT IF NOT PROVIDED: The weapons training at the Combat Control School will continue to be severely hampered due to lack of available firing ranges. Additionally, weapons training will be subject to the busy range schedule at Fort Bragg where Air Force training is not a priority.

ADDITIONAL: This project meets the criteria/scope specified in Air Force handbook 32-1084, "Facility Requirements." BASE CIVIL ENGINEER: Lt Col Michael R. Hass, (910) 394-2561. (1025 SM = 11,033 SF)

JOINT USE CERTIFICATION: This facility can be used by other components on an "as

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION POPE AIR FORCE BASE, NORTH CAROLINA	4. PROJECT TITLE ccs - INDOOR FIRING RANGE	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	171-475	TMKH023004P3	2,200

available basis"; however, the scope of the project is based on Air Force Requirements.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
POPE AIR FORCE BASE, NORTH CAROLINA	CCS - INDOOR FIRING RANGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	171-475	TMKH023004P3	2,200

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	01-APR-03
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2004	15%
* (d) Date 35% Designed	15-SEP-03
(e) Date Design Complete	15-SEP-04
(f) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or 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	131
(b) All Other Design Costs	67
(c) Total	198
(d) Contract	165
(e) In-house	33

(4) Construction Contract Award	04 DEC
(5) Construction Start	05 JAN
(6) Construction Completion	06 FEB

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

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

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST COST INDEX
WRIGHT PATTERSON AIR FORCE BASE, OHIO	AIR FORCE MATERIEL COMMAND	0.97

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	3598	4539	13987				44	30	28	22,226
END FY 2008	3508	4523	12752				44	30	28	20,885

7. INVENTORY DATA ($000)

Total Acreage:	8,220	
Inventory Total as of : (30 Sep 03)		4,305,329
Authorization Not Yet in Inventory:		72,529
Authorization Requested in this Program:		28,090
Authorization Included in the Following Program:	(FY 2006)	0
Planned in Next Three Years Program:		122,225
Remaining Deficiency:		190,374
Grand Total:		4,718,547

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
141-454	(NASIC) Add/Alter Intelligence Production Complex	9,539 SM	28,090	Design-Build	
		Total	28,090		

9a. Future Projects: Included in the Following Program: (FY2006)

None

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

113-321	Replace West Ramp, Ph 2	98,667 SM	9,100
310-933	Consolidate Materials Computational Research Facility	6,000 SM	15,000
311-171	Add to and Alter Aeronautical Research Lab	6,943 SM	19,000
311-173	Information Technology Complex, Ph 1	9,832 SM	21,000
610-112	Consolidate AFMC Law Offices	7,150 SM	8,000
610-243	Information Technology Complex, Ph 2	10,962 SM	22,025
730-835	Security Forces Admin Facility	5,765 SM	12,800
736-773	Add/Alter Chapel Activities Center	1,300 SM	3,300
822-265	Rpl Steam Lines/Tunnels Area B, Ph 1	1 LS	12,000
		Total	122,225

9c. Real Propery Maintenance Backlog This Installation ($M) 42

10. Mission or Major Functions: Air Force Materiel Command headquarters which is responsible management control, and direction of research, acquisition and logistics support for air and space weapon systems and related components; Aeronautical Systems Center; Air Force Research Laboratory including directorates for Materials, Sensors, Air Vehicles, Human Effectiveness, and propulsion; Air Force Institute of Technology; Air Force Museum; Air Force Security Assistance Center; National Aerospace Intelligence Center; National Airborne Operations Center; and air base wing; Air Force Reserve Command airlift wing with two C-141 airlift squadrons; and an AMC airlift flight with C-21 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

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. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

. INSTALLATION AND LOCATION HAW AIR FORCE BASE, OUTH CAROLINA	4. COMMAND: AIR COMBAT COMMAND	5. AREA CONST COST INDEX 0.83

. Personnel	PERMANENT			STUDENTS			SUPPORTED			
trength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTA
S OF 30 SEP 03	697	4841	843	0	14	0	4	0	77	6,47
ND FY 2008	702	4745	762	0	14	0	4	0	77	6,3C

. INVENTORY DATA ($000)	
. Total Acreage: 3,427	
. Inventory Total as of : (30 Sep 03)	1,029,6
. Authorization Not Yet in Inventory:	21,035
. Authorization Requested in this Program:	3,300
. Authorization Included in the Following Program: (FY 2006)	
Planned in Next Three Years Program:	20,5C
. Remaining Deficiency:	136C
. Grand Total:	1,088,12

. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATU CMPL
31-165	Sewer Outfall Line to Wateree River	8,230 LM	3,300	Apr-03	Sep-0
		Total	3,300		

a. Future Projects: Included in the Following Program: (FY2006)
None

b. Future Projects: Typical Planned Next Three Years:

41-454	USCENTAF Comm Squadron Facility	4,640 SM	9,700
40-674	ADAL Fitness Center	3,865 SM	7,100
40-675	Base Library	1,700 SM	3,700
		Total	20,500

c. Real Propery Maintenance Backlog This Installation ($M): 97

10. Mission or Major Functions: Headquarters 9th Air Force; and the 20th Fighter Wing operating F-16 aircraft.

1. 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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1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHAW AIR FORCE BASE, SOUTH CAROLINA	SEWER OUTFALL LINE TO WATEREE RIVER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27456	831-165	VLSB051000	3,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
SEWER LINE TOWATEREE RIVER				1,121
SEWEROUTFALL LINE	LM	8,230	135	(1,111)
ANTITERRORISM/FORCE PROTECTION (FENCE)	LM	70	136	(10)
SUPPORTING FACILITIES				1,838
UTILITIES	LS			(983)
SITE IMPROVEMENTS	LS			(376)
COMMUNICATION CONTROL CABLE	LM	1,207	7	(8)
EMERGENCY GENERATOR/SWITCHGEAR	LS			(150)
REPAIR ROADWAY	LS			(165)
PERMANENT & CONSTRUCTION EASEMENTS	HE	12	13,000	(156)
SUBTOTAL				2,959
CONTINGENCY (5.0 %)				148
TOTAL CONTRACT COST				3,107
SUPERVISION, INSPECTION AND OVERHEAD (6.0 %)				186
TOTAL REQUEST				3,293
TOTAL REQUEST (ROUNDED)				3,300

10. Description of Proposed Construction: Install 8,230 meters of 16" PVC forced main sewer effluent pipe; a 6,813,740 liters per day (1.8 million GPD) clear water pump station; acquire a permanent easement of 4.6 meters (15 feet) by 8 km (5 miles) and a construction easement of 15.2 meters (50 feet) by 8 km. Includes seven stream crossings, twelve air release valves; one outlet structure, clearing and grubbing, fencing and electrical support.

11. REQUIREMENT: 8,230 LM ADEQUATE: 0 LM SUBSTANDARD: 6,450 LM

PROJECT: Sewer outfall line to Wateree River.

REQUIREMENT: This is a Level 1 Environmental Compliance requirement. This project is required to achieve compliance with effluent discharge limits. The monthly average copper discharge limit of 9.7 micrograms per liter (ug/l) must be met before December 2004 to comply with the new National Pollution Discharge Elimination System (NPDES) Permit.

CURRENT SITUATION: The discharge from the wastewater treatment plant (WWTP) has failed the copper and toxicity parameters several times and has resulted in Notices of Violation (NOV). The discharge has exceeded the current allowable limits for copper by 100% and proposed limit by 500%. Shaw AFB has entered into a consent agreement with the South Carolina Department of Health and Environmental Control (SCDHEC) to comply with the copper discharge limits. Presently, the effluent from the WWTP discharges into a small creek with little flow which dictates very low effluent limits. Discharging into a larger body of water, like the Wateree River, will increase the monthly average copper limit to 330 ug/l. Making this change will allow Shaw to meet current limits. This project is critical for negotiations to establish a consent order to extend the Dec 2004

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHAW AIR FORCE BASE, SOUTH CAROLINA	SEWER OUTFALL LINE TO WATEREE RIVER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27456	831-165	VLSB051000	3,300

leadline and avoid further enforcement actions.

MPACT IF NOT PROVIDED: We will be in violation of NPDES Permit #SC0024970. We will e issued additional NOVs and an administrative order that will impose fines and impact ur mission.

DDITIONAL: In April 2001, the base entered into a consent agreement with SCDHEC to liminate copper discharge violations. Since that time, various studies have revealed hat the only viable solution is to extend the outfall line to a larger body of water like the Wateree River. This action will not only eliminate current copper violations, ut will ensure compliance with probable limit revisions and increased mission equirements. This project meets the criteria/scope specified in Air Force Handbook 32 084, "Facility Requirements". A preliminary analysis of reasonable options for ccomplishing this project (status quo, repair, new construction) was done. It indicates there is only one option that will meet operational requirements. A ertificate of exception has been prepared. Base Civil Engineer: LtCol Jeffrey Jackson 803) 895-9562; (Sewer Outfall Line: 8,230 LM = 26,994 LF)

JOINT USE CERTIFICATION: This is an installation infrastructure project, and does not ualify for joint use at this location. However, all tenants on this installation are enefited by this project.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT *DATA*	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHAW AIR FORCE BASE, SOUTH CAROLINA	SEWER OUTFALL LINE TO WATEREE RIVER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27456	831-165	vLSB051000	3,300

12. SUPPLEMENTAL *DATA:*

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	15-APR-03
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2004	15%
• (d) Date 35% Designed	15-AUG-03
(e) Date Design Complete	01-SEP-04
(f) Energy Study/Life-Cycle analysis was/will be performed	NO

(2) Basis:

(a) Standard or 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	198
(b) All Other Design Costs	99
(c) Total	297
(d) Contract	264
(e) In-house	33

(4) Construction Contract Award	05 JAN
(5) Construction Start	05 FEE
(6) Construction Completion	05 DEC

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

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

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
LACKLAND AIR FORCE BASE, TEXAS	AIR EDUCATION AND TRAINING COMMAND	0.82

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	4192	11607	6913	640	7279	42	409	2879	261	34,222
END FY 2008	4155	11140	6341	640	7350	42	409	2879	261	33,217

7. INVENTORY DATA ($000)

a. Total Acreage: 2,753	
b. Inventory Total as of : (30 Sep 02)	2,780,515
c Authorization Not Yet in Inventory:	124,275
d. Authorization Requested in this Program:	2,600
e. Authorization Included in the Following Program: (FY 2006)	0
f. Planned in Next Three Years Program:	163,433
g. Remaining Deficiency:	24,000
h. Grand Total:	3,094,823

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN STATUS START	CMPL
171-623	PART Lab	1,500 SM	2,600	Design - Build	
		Total	2,600		

9a. Future Projects: Included in the Following Program: (FY2006)

None

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

131-111	Replace Telecom Switch / Admin	4,647 SM	14,175
721-312	Student Dormitory (300 RM)	300 RM	30,000
721-312	Student Dormitory (300 RM)	300 RM	30,600
721-312	Student Dormitory (300 RM)	300 RM	30,600
721-311	Recruit Housing and Training Cmplx	19,517 SM	29,733
730-835	Security Forces Consolidated Ops Fac	3,067 SM	8,190
740-884	Child Development Center at LTA	3,067 SM	9,135
217-712	Cryptologic Maintenance Facility	1,000 SM	2,200
141-456	Information Operations Center (AIA)	3,315 SM	8,800
		Total	163.433

9c. Real Property Maintenance Backlog This Installation ($M) 131

10. Mission or Major Functions: A Training wing which includes Basic Military Training School, Air Force Security Forces Center, and security forces, cryptographic maintenance, recruting, and Air Force and Navy food service courses; Defense Language Institute English language Center; Department of Defense Military Dog Training Agency; Inter-American Air Force Academy; an Air Force reserve contingency hospital and training squadron, and a major Air Force 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

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1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
ARNOLD AIR FORCE BASE	AIR FORCE MATERIEL	COST INDEX
TENNESSEE	COMMAND:	0.89

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	53	45	2453					1	21	2,573
END FY 2008	48	44	2455					1	21	2,569

7. INVENTORY DATA ($000)

Total Acreage: 39,081

Inventory Total as of : (30 Sep 03)		4,589,946
Authorization Not Yet in Inventory:		24,125
Authorization Requested in this Program:		22,000
Authorization Included in the Following Program:	(FY 2006)	33,000
Planned in Next Three Years Program:		37,561
Remaining Deficiency:		319,900
Grand Total:		5,026,532

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
318-612	Upgrade Jet Engine Air Induction System, Phase V	1	LS	22,000	Design	Build
		Total		22,000		

9a. Future Projects: Included in the Following Program: (FY2006)

318-612	Improve Propulsion Altitude Capability	1	LS	33,000
		Total		33,000

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

218-868	Consolidated Laboratory Complex	6,500	SM	12,861
318-614	Consolidate Rocket Test Altitude	1	LS	7,300
610-127	Consolidated Civil Engineering Complex	7,850	SM	14,900
724-417	Add/Alter Wingo Inn		SM	2,500
		Total		37,561

9c. Real Propery Maintenance Backlog This Installation ($M): 39

10. The Arnold Engineering Development Center -- a national test center which conducts development, certification, and simulated flight testing of U.S. government, commercial and international aircraft, missile, and space systems. The Center develops critical new test capabilities, facilities, and technologies for future simulated flight-testing.

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

DD Form 1390, 24 Jul 00

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ARNOLD AIR FORCE BASE, TENNESSEE	UPGR JET ENGINE AIR INDUCTION SYSTEM, PHASE V

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72806	318-612	ANZY033001	22,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
UPG JET ENGINE AIR INDUCTION SYS, PHASE V				18,599
PROCESS AIR VALVES	LS			(1,670)
AMBIENT SUPPLY	LS			(735)
BYPASS AIR DUCT	LS			(2,294)
PROCESS AIR DUCT	LS			(13,900)
SUPPORTING FACILITIES				1,170
DEMOLITION	LS	1		(365)
LEAD BASE PAINT/ASBESTOS ABATEKENT	LS	1		(215)
SITE WORE	LS	1		(225)
TESTING AND VALIDATION	LS			(365)
SUBTOTAL				19,769
CONTINGENCY (5.0 %)				988
TOTAL CONTRACT COST				20,757
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				1,183
TOTAL REQUEST				21,941
TOTAL REQUEST (ROUNDED)				22,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(200)

10. Description of Proposed Construction: Upgrade the jet engine air induction system for AEDC Engine Test Facility (ETF) SL, J and T-Cells. Install atmospheric air inlet capabilities for C-cells, upgrade isolation valves for J-Cells, add a J/T-Cell air supply bypass duct, and add a process air supply duct, with assosciated supports, from the Aeropropulsion Systems Test Facility (ASTF) Plant.

11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS

PROJECT: Upgrade a jet engine air induction system, phase V. (Current Mission).

REQUIREKENT: This upgrade to the jet engine air induction system is required to enable infrastructure reductions and increase facility test capabilities. These facilities are used to simulate hi-altitude flight conditions for testing, evaluation, and development of advanced turbine engines for JSF, F-22, F-16, F-15, and F-18 fighter aircraft. This phase will provide an additional clean air supply duct eliminating AEDC dependence on the B-Airside plant to provide the concurrent test capacity required to satisfy projected workload and test customer requirements. Install atmospheric air inlet capabilities for C-cells reducing engine installation checkout costs, upgrade J-Cells isolation valves to reduce atmospheric air in-leakage, and replace the heavily corroded mild carbon steel J/T-Cell air supply bypass duct with stainless steel to increase the temperature rating of duct and reduce rust contamination within the ducting system.

CURRENT SITUATION: The Engine Test Facility (ETF) at Arnold Engineering Development Center (AEDC) utilized three major industrial plants (Basic, Addition, and the Aeropropulsion Systems Test Facility) to support advanced gas turbine engine test

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ARNOLD AIR FORCE BASE, TENNESSEE	UPGR JET ENGINE AIR INDUCTION SYSTEM, PHASE V

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72806	318-612	ANZY033001	22,000

onditions throughout their flight envelope. Numerous systems installed in the Basic lant (B-Plant) were brought to the United States at the conclusion of WWII and those nstalled in the Auxiliary Plant (A-Plant) were installed in the 1950s. The eropropulsion Systems Test Facility *(ASTF)* was built in the 1980s.The A&B Plant acilities were constructed in the late 40s and early 50s with air supply ducting made f mild carbon steel. The ducts are heavily corroded and produce large amounts of iron xide (rust) that when ingested into the engines; melt and plate the combustor and urbine *surfaces,* clogging cooling passages and changing flow characteristics. This auses engine performance degradation and damage to hardware and in some cases required omplete engine rebuild. Current and future advanced high-temperature gas turbine ngines require extremely clean airflow during testing. To meet this need, previous ILCON construction efforts connected to the clean, rust free airflow available within he ASTF and bypassed the existing corroded ducting and process air equipment. While ILCON Phase IV enabled shutdown of the A-Airside Plant, the B-Plant Airside was left perational to meet test capacity requirements. This project is required to provide the est capacity needed to meet throughput requirements and allow shutdown of the B-Airside lant. Future phases combined with improvement investment funding will eliminate the 0-50 year old airside and exhaust plant infrastructure and the high maintenance costs ssociated with the aged equipment.

MPACT IF NOT PROVIDED: Turbine engine damage resulting *from* contaminated air supply ucting will continue to escalate. Jet engine turbine testing will be adversely ffected and accurate test data will be unattainable, adversely impacting the eliability of aircraft engines. There is no other military or commercial business, hich can assume this workload.

DDITIONAL: There is no criteria/scope for this project in *Air* Force Handbook 32-1084, 'Facility Requirements". All known alternative options were considered during the levelopment of this project. No other option could meet the mission requirements; herefore, no economic analysis was needed or performed. A certificate of exception has een prepared. Base Civil Engineer: LtCol Michael Blaylock, (931) 454-4320. Design uild - Design Costs (4% of Subtotal Cost): $790,000.

OINT USE CERTIFICATION: This facility can be used by other components on an "as vailable" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ARNOLD AIR FORCE BASE, TENNESSEE	UPGR JET ENGINE AIR IWDUCTION SYSTEM, PHASE V

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72806	318-612	ANZY033001	22,000

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 -

(3) All Other Design Costs 593

(4) Construction Contract Award 04 DEC

(5) Construction Start 05 FEB

(6) Construction Completion 07 FEB

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FAC VALVE CNTL INTERFACE (MOD)	3080	2006	200

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	12. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
LACKLAND AIR FORCE BASE, TEXAS	AIR EDUCATION AND TRAINING COMMAND	0.82

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	4192	11607	6913	640	7279	42	409	2879	261	34,222
END FY 2008	4155	11140	6341	640	7350	42	409	2879	261	33,217

7. INVENTORY DATA ($000)

a. Total Acreage:	2,753	
b. Inventory Total as of : (30 Sep 02)		2,780,515
c. Authorization Not Yet in Inventory:		124,275
d. Authorization Requested in this Program:		2,596
e. Authorization Included in the Following Program:	(FY 2006)	0
f. Planned in Next Three Years Program:		163,433
g. Remaining Deficiency:		24,000
h. Grand Total:		3,094,819

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN STATUS START	CMPL
171-623	Security Force Training Expansion	1,500 SM	2,596	Design - Build	
		Total	2,596		

9a. Future Projects: Included in the Following Program: (FY2006)

None

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

131-111	Replace Telecom Switch / Admin	4,647 SM	14,175
721-312	Student Dormitory (300 RM)	300 RM	30,000
721-312	Student Dormitory (300 RM)	300 RM	30,600
721-312	Student Dormitory (300 RM)	300 RM	30,600
721-311	Recruit Housing and Training Cmplx	19,517 SM	29,733
730-835	Security Forces Consolidated Ops Fac	3,067 SM	8,190
740-884	Child Development Center at LTA	3,067 SM	9,135
217-712	Cryptologic Maintenance Facility	1,000 SM	2,200
141-456	Information Operations Center (AIA)	3,315 SM	8,800
		Total	163,433

9c. ~~Real Property Maintenance Backlog This Installation ($M)~~ ~~131~~

10. Mission or Major Functions: A Training wing which includes Basic Military Training School, Air Force Security Forces Center, and security forces, cryptographic maintenance, recruting, and Air Force and Navy food service courses; Defense Language Institute English language Center; Department of Defense Military Dog Training Agency; Inter-American Air Force Academy; an Air Force reserve contingency hospital and training squadron, and a major Air Force 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

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1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
SHEPPARD AIR FORCE BASE TEXAS	AIR EDUCATION AND TRAINING COMMAND	0.93

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	1045	3171	2751	323	6026	101	11	146	15	13,589
END FY 2008	1011	2865	2691	323	6026	101	11	146	15	13,189

7. INVENTORY DATA ($000)

a. Total Acreage:	5,719	
b. Inventory Total as of : (30 Sep 02)		1,919,763
c. Authorization Not Yet in Inventory:		98,790
d. Authorization Requested in this Program:		50,284
e. Authorization Included in the Following Program:	(FY 2006)	34,813
f. Planned in Next Three Years Program:		175,690
g. Remaining Deficiency:		48,800
h. Grand Total:		2,328,140

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
171-625	F-22 Technical Training Facility	11,368 SM	21,284	May 03	Sep 04
721-312	Student Dormitory (300 RM)	300 RM	29,000	Mar 03	Sep 04
		Total	50,284		

9a. Future Projects: Included in the Following Program: (FY2006)

442-758	T-6 COMBS Warehouse	1,115 SM	1,813
721-312	Student Dormitory (300 RM)	300 RM	33,000
		Total	34,813

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

113-321	Base Operations Ramp	40,082 SM	8,295
171-627	Repl Trainer Maint/Development Facility	8,933 SM	20,665
171-627	Training Support Facility	5,621 SM	11,130
721-312	Student Dormitory (100 RM)	100 RM	11,000
721-312	Student Dormitory (300 RM)	300 RM	30,000
721-312	Student Dormitory (300 RM)	300 RM	30,000
721-312	Student Dormitory (300 RM)	300 RM	34,000
721-312	Student Dormitory (300 RM)	300 RM	30,600
		Total	175,690

9c. Real Property Maintenance Backlog This Installation ($M) 61

10. Mission or Major Functions: A Training wing responsible for aircraft maintenance, civil engineering, comptroller, and health science courses; a flying training wing with T-37/T-38/AT-38 flying training squadrons that train US and NATO pilots under the Euro-NATO Joint Jet pilot Training (ENJJPT) Program; and an Air Force Reserve Command flying training squadron.

11. Outstanding pollution and Safety (OSHA) Deficiencies:

a. Air pollution	0
b. Water Pollution	433
c. Occupational Safety and Health	0
d. Other Environmental	40

orm 1390, 24 Jul 00

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHEPPARD AIR FORCE BASE, TEXAS	STUDENT DORMITORY (300 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	721-313	VNVP053004	29,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
STUDENT DORMITORY				22,280
STUDENT DORMITORY (300 RM)	SM	14,625	1,500	(21,938)
ANTITERRORISM/FORCE PROTECTION	LS			(342)
SUPPORTING FACILITIES				4,166
UTILITIES	LS			(1,240)
PAVEMENTS	LS			(743)
SITE IMPROVEMENTS	LS			(1,983)
COMMUNICATIONS	LS			(200)
SUBTOTAL				26,446
CONTINGENCY (5.0 %)				1,322
TOTAL CONTRACT COST				27,768
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				1,583
TOTAL REQUEST				29,351
TOTAL REQUEST (ROUNDED)				29,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,000.0)

10. Description of Proposed Construction: Four-story facility with reinforced concrete foundation and floor slabs, structural steel frame with brick veneer and roof system. Includes room-bath-room modules (two students per room), laundries, training managers' area, storage, dining space addition, and all necessary support. Comply with DoD interim minimum force protection construction standard. Grade Mix: El-E3.

Air Conditioning: 615Tons Grade Mix: El-E4 600

11. REQUIREMENT: 4,209 RM ADEQUATE: 1,764 RM SUBSTANDARD: 1,280 RM

PROJECT: Construct 300-room, 600-person multi-story student dormitory. (Current Mission)

REQUIREMENT: Properly sired and configured dormitories are required to support training of students. A major Air Force objective is to provide housing conducive to *their* proper rest, relaxation and personal well-being while providing a suitable study environment. Properly designed and furnished quarters, providing some degree of individual privacy, are essential to the successful accomplishment of vital training requirements. This project is in accordance with the Air Force Dormitory Master Plan. Antiterrorism force protection measures will comply with minimum DoD Force Protection Construction Standards.

CURRENT SITUATION: Sheppard AFB currently has a room deficiency of 1,165 for non-prior students resulting in over crowding of existing facilities. The deficiency equates to approximately 2,330 students being triple bunked. 1,280 rooms are too small by current standards for two students. Four of the twelve student dormitories at Sheppard have central latrines and are in deteriorated condition. They are plagued by broken toilets, sinks, sewer, and water lines. Severe moisture and mildew problems are creating health

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHEPPARD AIR FORCE BASE, TEXAS	STUDENT DORMITORY (300 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	721-313	VNVP053004	29,000

azards. Frequent electrical power outages cause damage to personal property such as elevisions and computers. Severe heat and cooling inconsistencies, exacerbated by the nability to open windows, contribute to stifling conditions for personal studies. riple bunking in these already substandard facilities make living conditions unbearable or students. The severe room deficiency must be corrected before the older facilities an be replaced. The overcrowding conditions create increased discipline problems, igher wash back rates of students, higher failure/discharge of students, increased aintenance and utility costs on existing facilities.

MPACT IF NOT PROVIDED: A properly sized and configured dormitory is necessary to begir onversion to the new dormitory standard for non-prior students to begin eliminating a ,165 room deficency. A major Air Force objective provides unaccompanied enlisted ersonnel with housing conducive to their proper rest, relaxation and personal well- eing. Properly designed and furnished quarters providing some degree of individual rivacy are essential to the successful accomplishment of the increasingly complicated nd important jobs these people must perform.

DDITIONAL: The new OSD dormitory standard does not apply to housing constructed for embers receiving entry-level skill training. This project is being designed to the Air orce technical training "pipeline" construction standard. All known alternatives were onsidered during the development of this project. No other option could meet mission equirements; therefore, no economic analysis was needed or performed. Base Civil ngineer: Lt Col Gregory Emanuel, (940) 676-2158. Dormitory: 14,625 SM = 157,422 SF.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHEPPARD AIR FORCE BASE, TEXAS	STUDENT DORMITORY (300 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	721-313	VNVP053004	29,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	10-MAR-03
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of 01 JAN 2004	15%
* (d) Date 35% Designed	20-SEP-03
(e) Date Design Complete	30-SEP-04
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	SHEPPARD
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1,160
(b) All Other Design Costs	580
(c) Total	1,740
(d) Contract	1,390
(e) In-house	350
(4) Construction Contract Award	05 JAN
(5) Construction Start	05 MAR
(6) Construction Completion	07 JAN

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
DORM FURNISHINGS	3400	2005	2,000

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHEPPARD AIR FORCE BASE, TEXAS	F-22 TECHNICAL TRAINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	171-625	VNVP063001	21,284

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
F-22 TECHNICAL TRAINING FACILITY				16,582
CLASSROOM TRAINING	SM	1,044	1,684	(1,758)
HIGH RAY TRAINING	SM	8,262	1,394	(11,517)
TRAINING SUPPORT	SM	1,323	1,294	(1,712)
TECHNICAL TRAINING *LAB/SHOP*	SM	739	1,684	(1,244)
ANTITERRORISM *FORCE* PROTECTION	SM	11,368	31	(350)
SUPPORTING FACILITIES				2,595
COMMUNICATIONS	LS			(1,250)
UTILITIES	LS			(725)
SITE IMPROVEMENTS/PAVEMENTS	LS			(620
SUBTOTAL				19,177
CONTINGENCY (5.0 %)				959
TOTAL CONTRACT COST				20,136
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				1,148
TOTAL REQUEST				21,283
TOTAL REQUEST (ROUNDED)				21,284
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(425.0)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls and metal roof system. Includes high-bay training space, classroom, lab, shop and support space. Relocates existing communication training and reroutes cable.

Air Conditioning: 350Tons

11. REQUIREMENT: 263,150 SM ADEQUATE: 228,078 SM SUBSTANDARD: 26,400 SM

PROJECT: Construct F-22 Technical Training Facility. (New Mission)

REQUIREMENT: Adequately sized and configured high bay technical training facility to beddown the F-22 training syllabus. Includes high-bay training space, classroom, lab, shop and all necessary support space. Relocates existing communication training and reroutes cable. Special considerations include: 1) Ventilation to exhaust carbon monoxide gases produced by some training procedures; 2) 400 hertz power is required for the training equipment in the high bays; 3) Floor in each high bay should be designed to support equipment that weighs up to 25,000 lbs; 4) Must have large access hallways and doors *in* and around high bays so they are accessible for large training equipment; 5) Must be environmentally controlled between 60-90 degrees to support operation *of* training devices; and 6) Must contain four special secured rooms for teaching/storing sensitive information. Antiterrorism force protection measures will comply with minimum DoD Force Protection Construction Standards.

CURRENT SITUATION: All training facilities on Sheppard AFB are currently used to maximum capacity, leaving no appropriate space for *F-22* maintenance training which is scheduled to begin in the 2007-2008 time frame.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHEPPARD AIR FORCE BASE, TEXAS	F-22 TECHNICAL TRAINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	171-625	VNVP063001	21,284

IMPACT IF NOT PROVIDED: If not provided, Sheppard AFB will have to force F-22 training into existing facilities, having a detrimental impact on current training. This impact includes removing aircraft to unsuitable outside locations, and relocating 28 classrooms in 3 facilities to space that is currently unavailable. Also, Sheppard AFB will not meet new mission requirements and troops will not receive adequate training to support the F-22 flying mission, meaning F-22 maintenance training will not be properly accomplished, leaving the USAF's most advanced fighter without properly trained maintenance technicians. Failing to provide this training will have a significant negative impact on the operational capability of the F-22.

ADDITIONAL: This project meets the scope/critera specificed in AF handbook 32-1084, "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 Iprepared. Base Civil Engineer: Lt Col Hal M. Tinsley, (940) 676-2158. F-22 Technical Training Facility: 11,368 SM = 122,364 SF.

BASE CIVIL ENGINEER: Emanuel, LTC

JOINT USE CERTIFICATION: Mission requirements, operational considerations and location are incompatible with use by other components.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHEPPARD AIR FORCE BASE, TEXAS	F-22 TECHNICAL TRAINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85796	171-625	VNVP063001	21,284

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	10-MAY-03
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAW 2004	15%
• (d) Date 35% Designed	15-SEP-03
(e) Date Design Complete	15-SEP-04
(f) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	

(3) Total Cost (c) = (a) t (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1,277
(b) All Other Design Costs	639
(c) Total	1,916
(d) Contract	1,616
(e) In-house	300

(4) Construction Contract Award	05 JAN
(5) Construction Start	05 MAR
(6) Construction Completion	07 JAW

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PREWIRED WORKSTATIONS 50@8500	3080	2005	425

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST COST INDEX
HILL AIR FORCE BASE, UTAH	AIR FORCE MATERIEL COMMAND	1.04

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	1026	6428	15200				1	0	68	22,723
END FY 2008	992	6428	14536				1	0	68	22,025

7. INVENTORY DATA ($000)

Total Acreage:	6,973	
Inventory Total as of : (30 Sep 03)		2,481,425
Authorization Not Yet in Inventory:		95,900
Authorization Requested in this Program:		13,113
Authorization Included in the Following Program:	(FY 2006)	43,500
Planned in Next Three Years Program:		105,800
Remaining Deficiency:		118,600
Grand Total:		2,858,338

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
740-674	Fitness Center	6,000	SM	13,113	Design-Build	
		Total		13,113		

9a. Future Projects: Included in the Following Program: (FY2006)

141-764	Add to Software Support Facility (GTACS & CAPRE workload)	6,735	SM	18,500
141-765	ICBM Propellant Analysis Complex	2,220	SM	7,700
171-625	F-22A Aircraft Battle Damage Repair Training/Storage Facility	2,020	SM	5,000
214-425	729th ACS Operations/Maintenance Complex	1,700	SM	4,900
215-553	Armament Overhaul/Test Facility	1,228	SM	7,400
		Total		43,500

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

130-142	Consolidated Fire/Crash Rescue Station	4,737	SM	9,100
141-764	Software Support Facility (F-16 Block)	6,800	SM	20,000
211-152	Composite Repair Facility, Phase 1	7,350	SM	25,000
212-212	Composites Radar Cross Section Fac	2,710	SM	12,000
215-552	Munitions Maintenance Facility (366FW)	2,820	SM	4,500
217-712	Electronics Repair Facility, Phase 1	8000	SM	20,000
422-259	Consolidate Missile Storage Facilities	3,535	SM	15,200
		Total		105,800

9c. Real Propery Maintenance Backlog This Installation ($M) 126

10. Mission or Major Functions: Ogden Air Logistics Center which is responsible for logistics management, support, and depot-level maintenance of tactical missiles, F-16 aircraft, Minuteman and Peacekeeper ICBMs, AN/FPS-117 Radar, Composite (including B-2 Composites), Power Systems, and Software workload; a test squadron with F-16, HH-1, MH-60, and HC/NC-130 aircraft; an air base wing; an Air Combat Command fighter wing with three F-16 squadrons; and an Air Force Reserve fighter wing with one F-16 squadron.

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE
INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH	COMMAND: AIR FORCE MATERIEL COMMAND	5. AREA CONST COST INDEX 1.04

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

DD Form 1390, 24 Jul 00

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE, UTAH	FITNESS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72896	740-674	KRSM923016	13,113

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
FITNESS CENTER				9,825
PHYSICAL FITNESS CENTER	SM	5,854	1,628	(9,530)
ENCLOSED WALKWAY	SM	146	1,400	(204)
ANTITERRORISM FORCE PROTECTION	SM	6,000	15	(90)
SUPPORTING FACILITIES				2,137
UTILITIES	LS			(556)
PAVEMENTS	LS			(597)
SITE IMPROVEMENTS	LS			(437)
COMMUNICATIONS SUPPORT	LS			(197)
RELOCATE PLAYING FIELD AND TRACK	LS			(350)
SUBTOTAL				11,962
CONTINGENCY (5.0 %)				598
TOTAL CONTRACT COST				12,560
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				716
TOTAL REQUEST				13,276
TOTAL REQUEST (ROUNDED)				13,113
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(550)

10. Description of Proposed Construction: Single story with concrete foundation and slabs, structural steel frame, insulated walls and roof. Include space for a lobby, administration, locker rooms, gymnasium, group exercise, equipment space, racquetball courts, a Health and Wellness Center, and all necessary support. Construct new walkway and relocate track. Comply with DOD force protection requirements per Unified Facilities Criteria.

Air Conditioning: 150Tons

11. REQUIREMENT: 6,000SM ADEQUATE: 1,881 SM SUBSTANDARD: 1,645 SM

PROJECT: Construct a fitness center. (Current Mission)

REQUIREMENT: An adequately sized and fully configured fitness center is required to support combat readiness and improve the physical fitness of active duty and reserve personnel. Adequate sport courts, racquetball courts, fitness areas, group exercise areas, a Health and Wellness Center, and locker rooms are needed to support the military personnel assigned to Hill AFH. The existing sports field with running track, located on the construction site, must be relocated. The new facility will be connected to the existing indoor swimming pool by the enclosed walkway to improve efficiencies and reduce manpower.

CURRENT SITUATION: The existing fitness and HAWC programs are located in two geographically separated facilities resulting in fragmented operations which are economically unfeasible to staff on a full-time basis. The Hess Fitness Center, built in 1966, is the primary fitness center, containing most of the required core functional area: however, the building is deficient in several respects. This facility is

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE, UTAH	FITNESS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72896	740-674	KRSM923016	13,113

undersized by 47% for the existing program. The weight room, lockers, and exercise equipment area become extremely overcrowed. The mechanical and electrical loads are undersized resulting in poor heating, ventilation and lighting. The Westside Gym is located in a 1942 historical warehouse complex and is used mainly by the civilian base population. It contains the HAWC and the fitness areas. This site is in an obscure, difficult to reach location, 2-3 miles from the main fitness center not easily accessible to the airmen living on base.

IMPACT IF NOT PROVIDED: Sports and fitness programs will be critically hampered by lack of an adequate facility. Deficiencies in all core areas will continue to impact readiness and fitness of our military personnel. This has a direct adverse impact on personnel quality of life, morale, productivity, and impacts retention and readiness.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" , and the USAF Fitness Facilities Design Guide. This is a corporate Air Force directed project essential for quality of life and retention Of highly skilled personnel. An economic analysis has been prepared comparing the alternatives of new construction, renovation, 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 Wes Somers (801) 777-7505. Fitness Center: 5,854 SM = 63,000 SF, Enclosed Walkway 146 SM = 1,570 SF. Design Build - Design Build Cost (4% of Subtotal Cost):$479,000.

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE, UTAH	FITNESS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72896	740-674	KRSM923016	13,113

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 -

(3) All Other Design Costs 360

(4) Construction Contract Award 04 DEC

(5) Construction Start 05 JAN

(6) Construction Completion 06 JUL

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FITNESS CENTER EQUIPMENT	3080	2006	550

1. COMPONENT	PY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CLASSIFIED LOCATION	(NASIC) ADD/ALTER INTELLIGENCE PRODUCTION COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31011 NPIP	141-454	ZHTV053303	28,090

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
ADD/ALTER INTELLIGENCE PRODUCTION COMPLEX				18,637
ADD TO INTELLIGENCE PRODUCTION COMPLEX	SM	7,235	2,182	(15,787)
ADD TO INTELLIGENCE PRODUCTION CHILLER PLANT	SM	74	1,716	(127)
ALTER INTELLIGENCE PRODUCTION COMPLEX	SM	2,230	1,140	(2,542)
ANTITERRORISM/FORCE PROTECTION	SM	7,235	25	(181)
SUPPORTING FACILITIES				6,683
UTILITIES	LS			(2,333)
PAVEMENTS	LS			(204)
SITE IMPROVEMENTS	LS			(477)
NEW PARKING, LOT OVERLAY, INTERSECTION WORK	LS			(877)
EMERGENCY GENERATORS	LS			(2,792)
SUBTOTAL				25,320
CONTINGENCY (5.0 %)				1,266
TOTAL CONTRACT COST				26,586
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				1,515
TOTAL REQUEST				28,101
TOTAL REQUEST (ROUNDED)				28,090

10. Description of Proposed Construction: SCIP facility, reinforced concrete foundation, floor slab, structural frame, pre-cast concrete walls; includes computer room, intelligence production, video telecom; relocate utilities, remove site road & 2-generators, alter road, add parking. Alter facility 10828; add chiller space; comply with DOD minimum antiterrorism/force protection standards.

Air Conditioning: 270Tons

11. REQUIREMENT: 56,837 SM ADEQUATE: 2,759 SM SUBSTANDARD: 45,668 SM

PROJECT: Add/Alter Intelligence Production Complex (New and Current Mission)

REQUIREMENT: A highly classified, contiguous, Sensitive Compartmented Information Facility (SCIF) is required to enable Air Force directed/endorsed mission growth of the National Air and Space Intelligence Center (NASIC) in areas of the highest national security interest, as described in National Security Policy Directive 26 (NSPD-26). These functions require the facilities requested herein. Complies with DoD minimum antiterrorism/force protection construction standards.

CURRENT SITUATION: The NASIC does not have the physical floor space to accommodate the additional analysts and information technology equipment endorsed by the Air Force through the programming process to accomplish its expanded national security mission. The NASIC is the sole Air Force production center for all source intelligence and has unique missions assigned by the DOD to assess foreign air and space capabilities that could pose a threat to the nation, and to support the global engagement of combat commanders. Production/analytical spaces are already 10% over capacity and not capable

1. COMPONENT AIR FORCE	PY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CLASSIFIED LOCATION	(NASIC) ADD/ALTER INTELLIGENCE PRODUCTION COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31011 NPIP	141-454	ZHTV053303	28.090

of absorbing 27% additional billets programmed over the PYDP. Information technology growth will exceed available floor space in FY05 and NASIC is not capable of housing over $22M in new equipment to be added over the FYDP. Considerable reductions in available intelligence will result from funds being diverted to pay for costly, substandard work-arounds. In addition, the Air Force endorsed NASIC Joint Reserve Intelligence Center (JRIC) is one of five Active Directory Hubs for the Joint Reserve Intelligence Program (JRIP). These Rubs provide backup data storage and server processing for the entire 27-site JRIP network, and are critical to the JRIP's support to combatant commanders during crisis and war. The NASIC JRIC success has generated Congressional support and has experienced a 200% increase in man-days supporting the Global War on Terrorism (GWOT). The current JRIC facility is already overcrowded during normal operations and was not designed to keep pace with the 24/7-mobilization support required for GWOT and other crisis operations. NASIC does not have the physical space to successfully accomplish the expanded mission responsibilities directed by the Air Force.

IMPACT IF NOT PROVIDED: A major loss of planned mission capability endorsed by the Air Force to keep pace with the intelligence required under NSPD-26 will result from a failure to provide the required space. Costly workarounds to house additional 270 personnel and over $22M in IT equipment will severely impact funding available for intelligence production (tooth-to-tail). Major security risks will result from housing overflow in multiple secure sites and significant admin overhead will be incurred to transport classified between sites. Severe overcrowding will limit production tools available to analyst. The JRIC will be unable to meet growing mission requirements for the 24/7 mobilization support for GWOT and support to combat commanders

ADDITIONAL: All known alternative options were considered during the development of this project. No other option will meet the mission requirement.

. COMPONENT .IR FORCE	PY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

). INSTALLATION AND LOCATION	4. PROJECT TITLE
CLASSIFIED LOCATION	(NASIC) ADD/ALTER INTELLIGENCE PRODUCTION COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31011 NFIP	141-454	ZHTV053303	28,090

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

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

(2) Basis:

(a) Standard or **Definitive Design -** **YES**

(b) Where **Design Was Most Recently Used -**

(3) All Other Design Costs **760**

(4) Construction Contract Award **05 JAN**

(5) Construction Start **05 MAR**

(6) Construction Completion **06 DEC**

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

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

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CLASSIFIED LOCATION	SPECIAL TACTICAL UNIT DETACHMENT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27248	999-999	PAY2050004	704

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				704
SPECIAL TACTICAL UNIT DETACHMENT FACILITY	LS			(704)
SUPPORTING FACILITIES				0
SUBTOTAL				704
TOTAL CONTRACT COST				704
TOTAL REQUEST				704
TOTAL REQUEST (ROUNDED)				704

10. Description of Proposed construction:

11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS

PROJECT: As required.

REQUIREMENT: Special access required

1. COMPONENT	PY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CLASSIFIEDLOCATION	PREDATOR MAINTENANCE COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
21576	211-152	ACC051003	26,121

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PREDATOR MAINTENANCE COMPLEX				17,157
GENERAL PURPOSE MAINTENANCE SHOP	SM	2,230	2,132	(4,754)
AGE MAINTENANCE FACILITY	SM	1,301	1,747	(2,273)
HANGAR ADDITION	SM	2,700	2,175	(6,064)
GROUND CONTROL STATION	SM	1,301	3,125	(4,066)
SUPPORTING FACILITIES				6,379
UTILITIES	LS			(1,629)
ACCESS ROAD/PARKING	LS			(1,500)
AIRFIELD PAVEMENTS	LS			(2,050)
SITE IMPROVEMENTS	LS			(1,000)
COMMUNICATION SUPPORT	LS			(200)
SUBTOTAL				23,536
CONTINGENCY (5.0 %)				1,177
TOTAL CONTRACT COST				24,713
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				1,409
TOTAL REQUEST				26,121
TOTAL REQUEST (ROUNDED)				26,121

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, masonry walls with structural steel frame, metal roof systems, fire detection/protection, upgrade utilities, site improvements, communications, access road, parking, airfield pavements, landscaping, and minimum DoD force protection standards. Infrastructure upgrades are needed since the beddown site is on an undeveloped area of the installation.

Air Conditioning: 200 Tons

11. REQUIREMENT: 7,620 SM ADEQUATE: 0 SM SUBSTANDARD : 0 SM

PROJECT: Construct Predator Maintenance Complex. (New Mission)

REQUIREMENT: This project supports the AF objective of a real-time "Hunter/Killer" capability by ensuring adequate facilities are available to support Predator operations and maintenance activities. Acquisition of aircraft was accelerated to combat the war on terrorism. Delivery of the new aircraft is scheduled to begin in FY05/2Q. Permanent facilities adequately sired and configured for multiple maintenance/logistics functions are required to support the Predator mission. The maintenance/logistics functions include general purpose maintenance shop (engines, avionics, wheel and tire, etc), AGE maintenance, and hangar addition. *Operations* requirements include a ground control station. Infrastructure upgrades are required to support new facility construction in an undeveloped area.

CURRENT SITUATION: There are no excess facilities at the beddown location that can be reconfigured to support the operations/maintenance/logistics requirements associated with this new weapon system. These functions will be located, on an interim basis, in

1. COMPONENT	PY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CLASSIFIEDLOCATION	PREDATOR MAINTENANCE COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-152	ACC051003	26,121

temporary facilities (leased modular units) until permanent facilities are provided. Adequate utility and pavement infrastructure is not available in the undeveloped area of the installation selected as the construction site.

IMPACT IF NOT PROVIDED: Failure to provide facilities to support this new mission beddown will significantly impact Predator operational capabilities. Adequate facilities will not be available to perform critical maintenance/logistics functions. This will force inefficient work-arounds that will degrade mission performance. Also, without adequate space, valuable assets will be exposed to harsh environments resulting in early deterioration and increased maintenance requirements.

ADDITIONAL: This project meets the criteria and scope specified in Air Force Handbook 32-1084, 'Facility Requirements'. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicates there is only one option that will meet operational requirements. Because of this, an economic analysis was not performed. A certificate of exception has been prepared. (General Purpose Maintenance Shop: 2,230 SM = 23,995 SF; AGE Maintenance Facility: 1,301 SM = 13,999 SF; Hangar Addition: 2,788 SM = 30,000 SF; Ground Control Station: 1,301 SM = 13,999 SF)

BASE CIVIL ENGINEER: SMITH

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE PREDATOR MAINTENANCE COMPLEX	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27516	211-152	ACC051003	26,121

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	15-APR-03
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of 01 JAN 2004	15%
* (d) Date 35% Designed	02-SEP-03
(e) Date Design Complete	15-SEP-04
(f) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or 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	1,567
(b) All Other Design Costs	784
(c) Total	2,351
(d) Contract	1,959
(e) In-house	392

(4) Construction Contract Award	05 FEB
(5) Construction Start	05 MAR
(6) Construction Completion	07 JUN

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

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

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OUTSIDE THE UNITED STATES

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE, GERMANY	4. COMMAND: UNITED STATES AIR FORCE, EUROPE	5. AREA CONST COST INDEX 1.22

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	1,443	6,984	2,885	66	946	124	302	586	181	13,51
END FY 2008	1,471	7,040	2,894	66	946	124	302	586	181	13,61

7. INVENTORY DATA ($000)		
a. Total Acreage:	5,068	
b. Inventory Total as of : (30 Sep 03)		2,801,700
c. Authorization Not Yet in Inventory:		150,300
d. Authorization Requested in this Program:		25,40
e. Authorization Included in the Following Program:	(FY 2006)	34,91
f. Planned in Next Three Years Program:		60,70
g. Remaining Deficiency:		409,65
h. Grand Total:		3,482,668

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
140-000	Theather Aerospace Op Spt Center	5,000 SM	24,204	Apr-03	Sep-04
422-264	Small Diameter Bomb Facilities, Ph 1	193 SM	1,200	Apr-03	Sep-04
		Total	25,404		

9a. Future Projects: Included in the Following Program: (FY2006)

422-264	Small Diameter Bomb Beddown	1,158 SM	4,714
113-321	Ramp 1, Phase 2	77,000 SM	23,600
219-943	Airfield Maintenance Compound	2,570 SM	6,600
		Total	34,914

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

141-786	Mobility Processing Center	7,559 SM	21,300
218-712	AGE Maintenance	2,402 SM	9,500
116-662	PNAF Pad	10,000 SM	4,500
113-321	Ramp 1, Phase 3	61,000 SM	14,800
141-000	Squad Ops/AMU, 37 AS	3,561 SM	10.600
		Total	60,700

9c. Real Propery Maintenance Backlog This Installation ($M) 168

10. Mission or Major Functions: A host airlift wing supporting a C-130E squadron, a C-9A squadron and a squadron composed of C-20A, and C-21A aircraft; Headquarters, United States Air Forces in Europe and Headquarters, Allied Air Forces Central Europe.

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 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	USAFE THEATER AEROSPACE OPERATIONS SUPPORT CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27596	141-461	TYFR023044R1	24,204

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
USAFE THEATER AEROSPACE OPS. SPT. CENTER				15,843
OPERATIONS SUPPORT CENTER	SM	5,000	2,195	(10,975)
UNDERGROUND CONNECTING TUNNEL	LM	110	1,820	(200)
ANTITERRORISM FORCE PROTECTION	LS			(4,668)
SUPPORTING FACILITIES				5,502
UTILITIES	LS			(1,070)
PASSIVE FORCE PROTECTION	LS			(860)
SCIP SHIELDING, SECURE COMM. & ELEC. POWER	LS			(1,050)
COMMUNICATION SUPPORT	LS			(702)
SITE DEVELOPMENT & IMPROVEMENT	LS			(1,030)
ENVIRONMENTAL SOIL REMEDIATION	LS			(200)
PAVEMENTS AND PARKING	LS			(590)
SUBTOTAL				21,345
CONTINGENCY (5.0 %)				1,067
TOTAL CONTRACT COST				22,412
SUPERVISION, INSPECTION AND OVERHEAD (6.5 %)				1.457
TOTAL REQUEST				23,869
TOTAL REQUEST (ROUNDED)				24,204
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(4,000.0)

10. Description of Proposed Construction: Two story structure with splinter and blast protection, reinforced concrete footings, floor slab, walls and roof system. The facility includes offices, basement with vault, automatic data processing, SCIP shielding, secure communication, parking, and all utilities. Entry control point, stairwell with connecting tunnel and other necessary support. Includes required DoD and EUCOM force protection standards.

Air Conditioning: 180 Tons

11. REQUIREMENT: 5,000 SM ADEQUATE: 0 SM SUBSTANDARD: 3,205 SM

PROJECT: Construct USAFE Theater Aerospace Operations Support Center. (Current Mission)

REQUIREMENT: An adequately sized and configured facility to house 300 personnel to provide Centralized critical command and control capabilities to European Theater commanders. Facility needs to provide a centralized location for senior leadership and commanders to access, process, and disseminate critical real time reconnaissance and intelligence data to the warfighting commander. Facility will be configured to increase command efficiency by eliminating duplication of effort and fully integrate command and control. Antiterrorism and force protection costs are higher due to the survivability requirements and the critical command and control functions of this facility.

CURRENT SITUATION: Ramstein AB does not have the facilities or the capabilities to

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	USAFE THEATER AEROSPACE OPERATIONS SUPPORT CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27596	141-461	TYFR023044R1	24,204

ccommodate this dynamic and complex mission. Vital command and control functions are idely separated from each other as well as from primary intelligence and artime/peacetime commanders resulting in reduced capabilities, vulnerable communicatior inks, and extensive operational delays in a field sensitive to the value of time.

MPACT IF NOT PROVIDED: Control of European theater air and space planning, execution, nd sustainment of contingency and wartime operations will continue to be severely imited due to the dispersed locations of the various functions. Additionally, mission apabilities will decrease and communication links will remain vulnerable. Operational lelays will continue to exist.

DDITIONAL: This project is not currently eligible for NATO funding. However, a precautionary pre-finance statement will be submitted in the event eligibility is stablished. This project meets the criteria/scope specified in AFH 32-1084, *Facility equirements". A preliminary analysis of reasonable options was done and indicated that nly one option meets operational requirements; therefore, an economic analysis was not erformed. A certificate of exception has been prepared. Base Civil Engineer: Col arlos Cruz-Gonzalez , 011-49-6371-6228. Operations Support Center: 5,000 SM = 53,820 F; Underground Tunnel 110 LM = 361 LF.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR 1.0314

OINT USE CERTIFICATION: This facility can be used by other components on an "as vailable" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	USAFE THEATER AEROSPACE OPERATIONS SUPPORT CENTER

5. PROGRAM ELEMENT.	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27596	141-461	TYFR023044R1	24.204

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	20-APR-03
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAW 2004	15%
* (d) Date 35% Designed	05-AUG-03
(e) Date Design Complete	Ol-SEP-04
(f) Energy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	
(a) Standard or 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	1,542
(b) All Other Design Costs	771
(c) Total	2,313
(d) Contract	1,928
(e) In-house	385
(4) Construction Contract Award	05 JAN
(5) Construction Start	05 FEB
(6) Construction Completion	07 JUN

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3400	2006	4,000

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	SMALL DIAMETER BOMB FACILITIES, PH. 1

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27240	422-264	TYFR0630311	1,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
WALL DIAMETER BOMB FACILITIES, PH. 1				596
MUNITIONS STORAGE MODULE (MSM)	SM	193	3,028	(584)
ANTITERRORISM FORCE PROTECTION	SM	193	62	(12)
SUPPORTING FACILITIES				476
UTILITIES	LS			(170)
PAVEMENTS	LS			(63)
SITE DEVELOPMENT & IMPROVEMENTS	LS			(68)
PASSIVE FORCE PROTECTION MEASURES	LS			(31)
LIGHTNING PROTECTION	LS			(23)
COMMUNICATION SUPPORT	LS			(32)
STORMWATER DRAINAGE	LS			(56)
ENVIRONMENTAL REMEDIATION	LS			(33)
SUBTOTAL				1,072
CONTINGENCY (5.0 %)				54
TOTAL CONTRACT COST				1,126
HJPERVISION, INSPECTION AND OVERHEAD (6.5 %)				73
TOTAL REQUEST				1,199
TOTAL REQUEST (ROUNDED)				1,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(250.0)

10. Description of Proposed Construction: All civil, structural, electrical, utility and communication work necessary for the construction of an earth covered, hardened Small Diameter Bomb storage facility with reinforced concrete footings, floor slab, walls and roof, lightning protection, as well as explosion proofed heavy steel doors on special tracks. Includes regional force protection standards and all other necessary support.

11. REQUIREMENT: 772SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM

PROJECT: Construct Small Diameter Bomb storage facilities. (New Mission)

REQUIREMENT: Adequately sized and configured facilities are required for the beddown of the new "Small Diameter Bomb" (SDB) weapon system, starting in FY05, in order to provide sufficient warfighting capabilities within the European Theater, as well as the Middle East region. The storage facilities need to provide space for storage, servicing and preparation for shipment of the new SDB weapon system, promoting a safe work environment and minimizing potential mishaps. This is the first phase of a four-phase project and provides one munitions storage module (MSM). Project must comply with regional AT/FP standards. Utilities cost increased due to 'the facility being built in an undeveloped environmental sensitive area, requiring extensive utility and communication runs.

CURRENT SITUATION: Ramstein AB has neither the facilities nor the storage capabilities to accommodate this new weapon system. The base is the central airlift hub for the European and Middle East regions, for all personnel, materials and supplies, as well as

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE, GERMANY	4. PROJECT TITLE SMALL DIAMETER BOMB FACILITIES, PH. 1	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27240	422-264	TYFR0630311	1.200

weapons/munitions, being transported to and from conus via airlift in support of contingencies and wartime operations.

IMPACT IF NOT PROVIDED: Support of contingencies and wartime operations within the Europe and Middle East theaters will be severely hampered, due to non existing storage and support facilities for this new weapon system. Respective weapons will need to be bbrought on scene directly from conus via airlift, possibly leading to extended operation delays and jeopardizing mission success.

ASDITIONAL: This project is not currently eligible for NATO funding. However, a precautionary prefinance statement will be submitted in the event eligibility is established. This project meets the criteria/scope specified in AFH 32-1084, *Facility Requirements." Base Civil Engineer: Col. Jeffrey L. Leptrone, 011-49-6371-47-6228. Small Diameter Bomb Facility: 193 SM = 2,077 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR 1.0314

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	SMALL DIAMETER BOMB FACILITIES, PH. 1

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27240	422-264	TYPR0630311	1,200

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	15-APR-03
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2004	15%
* (d) Date 35% Designed	01-AUG-03
(e) Date Design Complete	01-SEP-04
(f) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or 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	79
(b) All Other Design Costs	39
(c) Total	118
(d) Contract	99
(e) In-house	19

(4) Construction Contract Award	05 JAN
(5) Construction Start	05 MAR
(6) Construction Completion	06 FEB

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3400	2005	250

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST COST INDEX
THULE AIR BASE GREENLAND	AIR FORCE SPACE COMMAND	I 2.98

. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	25	111	2	0	0	0	0	0	685	82
END FY 2008	24	110	2	0	0	0	0	0	685	82

. INVENTORY DATA ($000)			
Total Acreage:	234,022		
Inventory Total as of : (30 Sep 03)			2,956,49
Authorization Not Yet in Inventory:			10,80
Authorization Requested in this Program:			19,80
Authorization Included in the Following Program:		(FY 2006)	
Planned in Next Three Years Program:			
Remaining Deficiency:			95,10
Grand Total:			3,082,19

. PROJECTS REQUESTED IN THIS PROGRAM:			(FY 2005)		
CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
721-312	Dormitory (72 RM)	2,520 SM	19,800	Apr-03	Sep-0
		Total	19,800		

a. Future Projects: Included in the Following Program:	(FY2006)
	None

b. Future Projects: Typical Planned Next Three Years:

None

c. Real Propery Maintenance Backlog This Installation ($M)	51

0. Mission or Major Functions: The base hosts a Space Warning Squadron that is designed to detect and rack Intercontinental Ballistic Missiles (ICBMs) launched against North America; hosts a Space Operations Squadron--part of the global satellite control network; operates a 10,000 foot runway supporting 2,600 U.S. and international flights per year; and is home to the northernmost deep water port in the world.

1. 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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1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
THULE AIR BASE, GREENLAND	DORMITORY (72 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	721-312	WWCX043001	19,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
DORMITORY (72 RM)				15,422
DORMITORY	SM	2,520	6,000	(15,120)
ANTITERRORISM FORCE PROTECTION	SM	2,520	120	(302)
SUPPORTING FACILITIES				2,290
UTILITIES	LS			(950)
SITE IMPROVEMENTS	LS			(350)
COMMUNICATIONS	LS			(240)
ROADWORK, WALKWAYS, PARKING	LS			(750)
SUBTOTAL				17,712
CONTINGENCY (5.0 %)				886
TOTAL CONTRACT COST				18,598
SUPERVISION, INSPECTION AND OVERHEAD (6.5 %)				1,209
TOTAL REQUEST				19,807
TOTAL REQUEST (ROUNDED)				19,800

10. Description of Proposed Construction: A three-story facility with arctic foundation, steel frame, insulated panel exterior veneer and a pitched standing metal roof. Includes four-bedroom modules, with individual bathroom and walk-in closets, and a shared social space/kitchen, utilities, pavements and all other support. Comply with DoD force protection requirements per unified Facilities Criteria.

Air Conditioning: 150Tons Grade Mix: E5-E9 72

11. REQUIREMENT: 176 RM ADEQUATE: 104 RM SUBSTANDARD: 0 RM

PROJECT: Construct a Dormitory (72 RM). (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 essential jobs these people perform at this remote arctic location. 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 accommodate unaccompanied enlisted personnel assigned to Thule AR, Greenland. Thule is a remote site located in an extreme arctic environment.

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 scope/criteria specified in the new uniform barracks construction standard, 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. FY02 Unaccompanied Housing RPM

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
THULE AIR BASE, GREENLAND	DORMITORY (72 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	721-312	WWCX043001	19.800

onducted: $1.0M; FY03 Unaccompanied Housing RPM conducted: $1.0M. Future Unaccompanied ousing RPM requirements (estimated): FY04 $1.2M; FY05: $1.3M; FY06 $1.5M. Base Civil ngineer : Lt Col David B. McCormick, (719) 556-7631. Dormitory: 2,520 SM = 27,115 SF.

OREIGN CURRENCY : FCF Budget Rate Used: KRONE 7.7996

OINT USE CERTIFICATION: This project can be used by other components on an "as vailable" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
THULE AIR BASE, GREENLAND	DORMITORY (72 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	721-312	WWCX043001	19,800

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	08-APR-03
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of 01 JAN 2004	15%
* (d) Date 35% Designed	15-SEP-03
(e) Date Design Complete	20-SEP-04
(f) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	

(3) Total Cost (c) = (a) t (b) or (d) t (e):

	($000)
(a) Production of Plans and Specifications	792
(b) All Other Design Costs	495
(c) Total	1,287
(d) Contract	1,089
(e) In-house	198

(4) Construction Contract Award	05 FEB
(5) Construction Start	05 MAY
(6) Construction Completion	06 SEP

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

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

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
NDERSEN AIR FORCE BASE GUAM	PACIFIC AIR FORCES	2.03

. Personnel	PERMANENT			STUDENTS			SUPPORTED			
trength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
S OF 30 SEP 03	221	2,002	734	0	0	0	161	866	832	4,816
ND FY 2008	219	1,977	587	0	0	0	161	866	832	4,642

. INVENTORY DATA ($000)		
otal Acreage:	11,050	
nventory Total as of : (30 Sep 03)		4,160,176
uthorization Not Yet in Inventory:		61,600
uthorization Requested in this Program:		19,593
uthorization Included in the Following Program:	(FY 2006)	0
lanned in Next Three Years Program:		45,500
emaining Deficiency:		102,410
rand Total:		4,389,279

. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	A R	DESIGN T	STATUS C M P L
42-758	Construct War Reserve Mat'l Storage Fac	9,894 SM	19,593		Apr-03	Jul-04
		Total	19,593			

a. Future Projects: Included in the Following Program: (FY2006)

None

b. Future Projects: Typical Planned Next Three Years:

11-111	Repair AEF FOL South Runway, Ph 1 of 2	162,600 SM	20,000
22-258	Const AEF FOL Munitions Igloos, Ph 1 of 3	3,567 SM	14,400
42-758	Air Freiaht Terminal	2,323 SM	8,700
30-84 1	Replace MWD Facility	380 SM	2,400
		Total	45,500

c. Real Propery Maintenance Backlog This Installation ($M) 125

0. 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.

1. 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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1. COMPONENT	PY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	WAR RESERVE MATERIALS STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
28031	442-758	AJJY963110	19,593

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
WAR RESERVE MATERIEL STORAGE				15,239
WAR RESERVE MATERIAL STORAGE	SM	9,894	1,520	(15,039)
ANTITERRORISM FORCE PROTECTION	SM	9,894	20	(200)
SUPPORTING FACILITIES				2,275
UTILITIES	LS			(450)
SITE IMPROVEMENTS	LS			(600)
COMMUNICATIONS	LS			(100)
CONTAMINATED SOIL REMEDIATION	LS			(200)
PAVEMENTS/ROADWAY	LS			(470)
DEMOLITION/ASBESTOS ABATEMENT	SM	9,102	50	(455)
SUBTOTAL				17,514
CONTINGENCY (5.0 %)				876
TOTAL CONTRACT COST				18,390
SUPERVISION, INSPECTION AND OVERHEAD (6.5 %)				1,195
TOTAL REQUEST				19,505
TOTAL REQUEST (ROUNDED)				19,593

10. Description of Proposed Construction: Reinforced concrete foundation, floor slabs, columns, CMU walls, built-up roof system, de-humidifier, ventilators, vehicle exhaust system, fire detection and protection systems. Include6 vehicle/equip storage, offices, toilets, equip room, battery storage, pavement/roadway, fencing, comm, all support utilities, soil remediation and demolish two bldgs. Design to Seismic Zone 4 and 170MPH Typhoon winds.

11. REQUIREMENT: 12,217 SM ADEQUATE: 2,323 SM SUBSTANDARD: 3,956 SM

PROJECT: Construct a consolidated war reserve materiel (WRM) storage facility. (Current Mission)

REQUIREMENT: An adequately sized, configured, and humidity controlled storage facility for the protection of prepositioned WRM vehicles/AGE/material handling equipment, bare base and medical assets to support strategic airlift and Air Expeditionary Forces Forward Operating Location contingency/OPLAN missions at this strategic overseas base. Antiterrorism force protection feature6 will be in accordance with the local threat assessment.

CURRENT SITUATION: There are no WRM storage facilities to properly protect vehicles, AGE, and aircraft material handling equipment from the corrosive tropical environment. WRM assets are stored in aircraft hangars needed for aircraft during exercise6 and contingencies, and in supply and munitions warehouses; over 25 percent of the asset6 can not be protected and must be stored outside exposed to harsh weather and typhoons. WRM management, accountability and mission support are hindered due to having to frequently move WRM in, out and between many facilities. Equipment shows evidence of deterioration from the corrosive climate within weeks of arrival and rapidly deteriorates, drastically

1. COMPONENT	PY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	WAR RESERVE MATERIALS STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
28031	442-750	AJJY963110	19,593

shortening its service life, when stored outdoors.

IMPACT IF NOT PROVIDED: Lack of adequate storage facilities will continue to cause prepositioned WRM assets, essential for timely response to contingency/OPLAN operations, to rapidly deteriorate in the corrosive tropical environment and place the mission at risk.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1,084, "Facility Requirments." A preliminary analysis of 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. Project demolishes two buildings. BASE CIVIL ENGINEER: Lt Col Arnold, 671-366-7101. WRM Storage Facility: 9,094 SM = 106,459 SF.

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.