Department of the Air Force

Military Construction Program

Fiscal Year (FY) 2011
Budget Estimates

Justification Data Submitted to Congress
February 2010

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2011
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Department of the Air Force
Military Construction and Military Family Housing
Program Summary
Fiscal Year 2011

	Authorization For Appropriation Request ($000s)	Appropriation Request ($000s)
Military Construction		
Inside the United States	**919,935**	**919,935**
Outside the United States	**307,114**	**307,114**
Planning and Design (10 USC 2807)	**66,336**	**66,336**
Unspecified Minor Construction (10 USC 2805)	**18,000**	**18,000**
Total Military Construction	**1,311,385**	**1,311,385**
Military Family Housing		
New Construction	**0**	**0**
Improvements	**73,800**	**73,800**
Planning and Design	**4,225**	**4,225**
Subtotal	**78,025**	**78,025**
Operations, Utilities and Maintenance	**364,218**	**364,218**
Leasing	**95,671**	**95,671**
Privatization	**53,903**	**53,792**
Subtotal	**513,792**	**513,792**
Total Military Family Housing	**591,817**	**591,817**
Grand Total Air Force	**1,903,202**	**1,903,202**

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STATE/COUNTRY	INSTALLATION	PROJECT		AUTH FOR APPROP REQUEST	APPROP REQUEST	PAGE
ALABAMA	Maxwell	ADAL Air University Library		13,400	13,400	22
			Maxwell TOTAL:	13,400	13,400	
			ALABAMA TOTAL	13,400	13,400	
ALASKA	Eielson	Repair Central Heat and Power Plant Boiler		28,000	28,000	26
			Eielson Total	28,000	28,000	
	Elmendorf	ADAL Air Support Operations Squadron Training Facility		4,749	4,749	30
		F-22 Add/Alter Weapons Release Systems Shop & AME		10,525	10,525	33
		Railhead Operations facility		15,000	15,000	36
			Elmendorf TOTAL:	30,274	30,274	
			ALASKA TOTAL:	58,274	58,274	
ARIZONA	Davis-Monthan	AMARG Hangar		25,000	25,000	40
		HC-130 AGE Maintenance Facility		4,600	4,600	43
		HC-130J Aerial Cargo Facility		10,700	10,700	46
		HC-130J Parts Store		8,200	8,200	49
			Davis-Monthan TOTAL:	48,500	48,500	
	Fort Huachuca	TFI - Predator LRE Beddown		11,000	11,000	53
			Fort Huachuca TOTAL	11,000	11,000	
			ARIZONA TOTAL:	59,500	59,500	
COLORADO	Buckley	Security Forces Operations Facility		12,160	12,160	57
			Buckley TOTAL:	12,160	12,160	
	Peterson	RAIDRS Space Control Facility		24,800	24,800	61
			Peterson TOTAL:	24,800	24,800	
	USAF Academy	Const Center for Character & Leadership Development		27,600	27,600	65
			USAF Academy TOTAL:	27,600	27,600	
			COLORADO TOTAL:	64,560	64,560	
DELAWARE	Dover	C-5M/C-17 Maintenance Training Facility Phase 2		3,200	3,200	69
			Dover TOTAL	3,200	3,200	
			DELAWARE TOTAL	3,200	3,200	
DISTRICT OF COLUMBIA	Bolling	Joint Air Defense Opeations Center		13,200	13,200	73
			Bolling TOTAL:	13,200	13,200	
			DISTRICT OF COLUMBIA TOTAL:	13,200	13,200	
FLORIDA	Eglin	F-35 Fuel Cell Maintenance Hangar		11,400	11,400	77
			Eglin TOTAL:	11,400	11,400	
	Hurlburt	ADAL Special Operations School Facility		6,170	6,170	81
		Add to Visiting Quarters (24 Rm)		4,500	4,500	84
		Base Logistics Facility		24,000	24,000	87
			Hurlburt TOTAL:	34,670	34,670	
	Patrick	Air Force Technical Applications Center		158,009	158,009	91
			Patrick TOTAL	158,009	158,009	
			FLORIDA TOTAL:	204,079	204,079	
LOUISIANA	Barksdale	Weapons Load Crew Training Facility		18,140	18,140	95
			Barksdale TOTAL:	18,140	18,140	
			LOUISIANA TOTAL:	18,140	18,140	
NEVADA	Creech	UAS Airfield Fire/Crash Rescue Station		11,710	11,710	99
			Creech TOTAL:	11,710	11,710	
	Nellis	F-35 Add/Alter 422 TEST Evaluation Squadron Facility		7,870	7,870	103
		F-35 Add/Alter Flight Test Instrumentation Facility		1,900	1,900	106
		F-35 Flight Simulator Facility		13,110	13,110	109
		F-35 Maintenance Hangar/AMU		28,760	28,760	112
			Nellis TOTAL:	51,640	51,640	
			NEVADA TOTAL:	63,350	63,350	
NEW JERSEY	McGuire	Base Operations/Command Post Facility (TFI)		8,000	8,000	116

STATE/COUNTRY	INSTALLATION	PROJECT		AUTH FOR APPROP REQUEST	APPROP REQUEST	PAGE
		Dormitory (120 Room)		18,440	18,440	119
			McGuire TOTAL:	26,440	26,440	
			NEW JERSEY TOTAL:	26,440	26,440	
NEW MEXICO	Cannon	Dormitory (96 Room)		14,000	14,000	123
		UAS Squad Ops Facility		20,000	20,000	126
			Cannon TOTAL	34,000	34,000	
	Holloman	UAS Add/Alter Maintenance Hangar		15,470	15,470	130
		UAS Maintenance Hangar		22,500	22,500	133
			Holloman TOTAL:	37,970	37,970	
	Kirtland	Aerial Delivery Facility Addition		3,800	3,800	137
		Armament Shop		6,460	6,460	140
		H/MC-130 Construct Fuel System Maintenance Facility		14,142	14,142	143
			Kirtland TOTAL:	24,402	24,402	
			NEW MEXICO TOTAL:	96,372	96,372	
NEW YORK	Fort Drum	20th Air Support Operations Squadron Complex		20,440	20,440	147
			Fort Drum TOTAL:	20,440	20,440	
			NEW YORK TOTAL:	20,440	20,440	
NORTH DAKOTA	Minot	Control Tower/Base Operations Facility		18,770	18,770	151
			Minot TOTAL:	18,770	18,770	
			NORTH DAKOTA TOTAL:	18,770	18,770	
OKLAHOMA	Tinker	Upgrade Building 3001 Infrastructure, Phase III		14,000	14,000	155
			Tinker TOTAL	14,000	14,000	
			OKLAHOMA TOTAL	14,000	14,000	
SOUTH CAROLINA	Charleston	Civil Engineer Complex (TFI) - Phase 1		15,000	15,000	159
			Charleston TOTAL	15,000	15,000	
			SOUTH CAROLINA TOTAL	15,000	15,000	
TEXAS	Dyess	C-130J Add/Alter Flight Simulator Facility		4,080	4,080	163
			Dyess TOTAL:	4,080	4,080	
	Ellington	TFI - Upgrade UAV Maintenance Hangar		7,000	7,000	168
			Ellington TOTAL	7,000	7,000	
	Lackland	BMT Satellite Classrooms/Dining Facility No. 2		32,000	32,000	172
		One-Company Fire Station - JBSA		5,500	5,500	175
		Recruit/Family Inprocessing & Information Center		21,800	21,800	178
		Recruit Dormitory Phase 3		67,980	67,980	181
			Lackland TOTAL:	127,280	127,280	
			TEXAS TOTAL:	138,360	138,360	
UTAH	Hill	F-22 T-10 Engine Test Cell		2,800	2,800	199
			Hill TOTAL:	2,800	2,800	
			UTAH TOTAL:	2,800	2,800	
VIRGINIA	Langley	F-22A Add/Alter Hangar Bay LO/CRF Facility - TFI		8,800	8,800	189
			Langley TOTAL:	8,800	8,800	
			VIRGINIA TOTAL:	8,800	8,800	
WYOMING	Camp Guernsey	Nuclear/Space Security Tactics training Center (NSSTTC)		4,650	4,650	193
			Camp Guernsey TOTAL	4,650	4,650	
			WYOMING TOTAL	4,650	4,650	
UNKNOWN	Unspecified	F-35 Academic Trianing Center		54,150	54,150	196
		F-35 Squadron Operations Facility		10,260	10,260	199
		F-35 Flight Simulator Facility		12,190	12,190	202
			Unspecified TOTAL:	76,600	76,600	
			UNKNOWN TOTAL:	76,600	76,600	
			INSIDE THE US TOTAL:	919,935	919,935	

STATE/COUNTRY	INSTALLATION	PROJECT		AUTH FOR APPROP REQUEST	APPROP REQUEST	PAGE
AFGHANISTAN	Bagram	Consolidated Rigging Facility		9,900	9,900	206
		Fighter Hangar		16,480	16,480	209
		MEDEVAC Ramp Expansion/Fire Station		16,580	16,580	212
			Bagram TOTAL	42,960	42,960	
			AFGHANISTAN TOTAL	42,960	42,960	
BAHRAIN	Shaikh Isa	North Apron Expanson		45,000	45,000	216
			Shaikh Isa TOTAL	45,000	45,000	
			BAH TOTAL	45,000	45,000	
GERMANY	Kapaun Annex	Dormitory (128 Room)		19,600	19,600	220
			Kapaun TOTAL	19,600	19,600	
	Ramstein	Construct C-130J Flight Simulator Facility		8,800	8,800	224
		Deicing Fluid Storage & Dispensing Facility		2,754	2,754	227
		UAS Satcom Relay Pads and Facility		10,800	10,800	231
			Ramstein TOTAL:	22,354	22,354	
	Vilseck	Air Support Operations Squadron (ASOS) Complex		12,900	12,900	235
			Vilseck TOTAL:	12,900	12,900	
			GERMANY TOTAL:	54,854	54,854	
GUAM	Andersen	Guam Strike Ops Group &Tanker Task Force Renovtion (TFI)		9,100	9,100	239
		Guam Strike South Ramp Utilities Phase 1 (TFI)		12,200	12,200	242
		PRTC - Combat Communications Operations Facility		9,200	9,200	245
		PRTC - Commando Warrior Open Bay Student Barracks (TFI)		11,800	11,800	248
		PRTC - Red Horse Headquarters/Engineering Facility		8,000	8,000	251
			Andersen TOTAL:	50,300	50,300	
			GUAM TOTAL:	50,300	50,300	
ITALY	Aviano	Air Support Operations Squadron (ASOS) Facility		10,200	10,200	255
		Dormitory (144 Rm)		19,000	19,000	258
			Aviano TOTAL:	29,200	29,200	
			ITALY TOTAL:	29,200	29,200	
KOREA	Kunsan	Construct DMT Flight Simulator Facility		7,500	7,500	262
			Kunsan TOTAL	7,500	7,500	
			KOREA TOTAL	7,500	7,500	
QATAR	Al Udeid	Blatchford-Preston Complex, Phase III		62,300	62,300	266
			Al Udeid Total	62,300	62,300	
			QATAR TOTAL	62,300	62,300	
UNITED KINGDOM	Mildenhall	Extend Taxiway Alpha		15,000	15,000	270
			Mildenhall Total	15,000	15,000	
			UNITED KINGDOM TOTAL	15,000	15,000	
			OUTSIDE THE US TOTAL:	307,114	307,114	
WORLDWIDE	Various	P-341 Unspecified Minor Construction		18,000	18,000	273
		P&D - Planning & Design		66,336	66,336	275
			WORLDWIDE UNSPECIFIED	84,336	84,336	
			VARIOUS TOTAL:	84,336	84,336	
			INSIDE THE US TOTAL:	919,935	919,935	
			OUTSIDE THE US TOTAL:	307,114	307,114	
			FY 2011 TOTAL:	1,311,385	1,311,385	

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DEFINITIONS OF NEW AND CURRENT MISSION

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

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

FY11	APPROP ($000)	AUTH FOR APPROP ($000)
NEW MISSION	439,356	439,356
CURRENT MISSION	787,693	787,693
PLANNING & DESIGN	66,336	66,336
MINOR CONSTRUCTION	18,000	18,000
TOTAL:	1,311,385	1,311,385

STATE/COUNTRY	INSTALLATION	PROJECT	APPROP REQUEST	AUTH REQUEST	TYPE
AFGHANISTAN	BAGRAM	Consolidated Rigging Facility	$9,900	$9,900	CM
AFGHANISTAN	BAGRAM	Fighter Hangar	$16,480	$16,480	CM
AFGHANISTAN	BAGRAM	MEDEVAC Ramp/Fire Station	$16,580	$16,580	CM
ALABAMA	MAXWELL	ADAL Air University Library	$13,400	$13,400	CM
ALASKA	EIELSON	Repair Central Heat and Power Plant Boiler	$28,000	$28,000	CM
ALASKA	ELMENDORF	Construct Railhead Operations Facility	$15,000	$15,000	CM
ARIZONA	DAVIS-MONTHAN	AMARG Hangar	$25,000	$25,000	CM
BAHRAIN	SHAIKH ISA	North Apron Expansion	$45,000	$45,000	CM
COLORADO	BUCKLEY	Security Forces Operations Facility	$12,160	$12,160	CM
COLORADO	USAF ACADEMY	Center for Character & Leadership Development	$27,600	$27,600	CM
FLORIDA	HURLBURT	ADAL AF Special Operations School (SOS) Facility	$6,170	$6,170	CM
FLORIDA	HURLBURT	Add to Visiting Quarters (24 Rm)	$4,500	$4,500	CM
FLORIDA	HURLBURT	Base Logistics Facility	$24,000	$24,000	CM
FLORIDA	PATRICK	Air Force Technical Applications Center	$158,009	$158,009	CM
GERMANY	KAPAUN	Dormitory - 128 Room	$19,600	$19,600	CM
GERMANY	RAMSTEIN	Deicing Fluid Storage & Dispensing Facility	$2,754	$2,754	CM
GUAM	ANDERSON	PRTC - Combat Communications Operations Facility	$9,200	$9,200	CM
GUAM	ANDERSON	PRTC - Commando Warrior Open Bay Barracks	$11,800	$11,800	CM
GUAM	ANDERSON	PRTC - Red House Headquarters/Engineering Facility	$8,000	$8,000	CM
ITALY	AVIANO	Dormitory (144 Rm)	$19,000	$19,000	CM
KOREA	KUNSAN	Construct DMT Flight Simulator	$7,500	$7,500	CM
LOUISIANA	BARKSDALE	Weapons Load Training Facility	$18,140	$18,140	CM
NEW JERSEY	MCGUIRE	Dormitory (120 Room)	$18,440	$18,440	CM
NEW JERSEY	MCGUIRE	Base Operations/Command Post Facility	$8,000	$8,000	CM
NEW MEXICO	KIRTLAND	Construct Armament Shop	$6,460	$6,460	CM
NORTH DAKOTA	MINOT	Control Tower/Base Operations Facility	$18,770	$18,770	CM
OKLAHOMA	TINKER	Upgrade Building 3001 Infrastructure Phase III	$14,000	$14,000	CM
QATAR	AL UDEID	Blatchford-Preston Complex, Phase III	$62,300	$62,300	CM
SOUTH CAROLINA	CHARLESTON	Civil Engineer Complex (TFI) - Phase 1	$15,000	$15,000	CM
TEXAS	LACKLAND	BMT Satellite Classroom/Dining Facility No. 2 Phase 3	$32,000	$32,000	CM
TEXAS	LACKLAND	One Company fire Station	$5,500	$5,500	CM
TEXAS	LACKLAND	Recruit/Family Inprocessing & Information Center	$21,800	$21,800	CM
TEXAS	LACKLAND	Recruit Dormitory 3, Phase 3	$67,980	$67,980	CM
UNITED KINGDOM	MILDENHALL	Extend Taxiway Alpha	$15,000	$15,000	CM
WYOMING	CAMP GUERNSEY	Nuclear/Space Security Tactics Training Center	$4,650	$4,650	CM
		Current Mission TOTAL:	$787,693	$787,693	
ALASKA	ELMENDORF	F-22A Weapons Release Shop & AME	$10,525	$10,525	NM
ALASKA	ELMENDORF	ADAL Air Support Operations Squadron Training Facility	$4,749	$4,749	NM
ARIZONA	DAVIS-MONTHAN	HC-130J Aerial Cargo Facility	$10,700	$10,700	NM
ARIZONA	DAVIS-MONTHAN	HC-130J AGE Maintenance Facility	$4,600	$4,600	NM
ARIZONA	DAVIS-MONTHAN	HC-130J Parts Store	$8,200	$8,200	NM
ARIZONA	FORT HUACHUCA	TFI - Predator LRE Beddown	$11,000	$11,000	NM
COLORADO	PETERSON	RAIDRS Space Control Facility	$24,800	$24,800	NM
DELAWARE	DOVER	C-5M/C-17 Maintenance Training Facility Phase 2	$3,200	$3,200	NM
DISTRICT OF COLUMBIA	BOLLING	Joint Air Defense Operations Center (NCR IADS)	$13,200	$13,200	NM
FLORIDA	EGLIN	F-35 4-Bay Fuel Cell Maintenance Hangar (3 Bay)	$11,400	$11,400	NM
GERMANY	RAMSTEIN	C-130J Flight Simulator	$8,800	$8,800	NM
GERMANY	RAMSTEIN	UAS SATCOM Relay Pads & Facility	$10,800	$10,800	NM
GERMANY	VILSECK	Air Support Operations Squadron (ASOS) Complex	$12,900	$12,900	NM
GUAM	ANDERSON	Guam Strike Tanker & Bomber Squadron Operations	$9,100	$9,100	NM
GUAM	ANDERSON	Guam Strike South Ramp Utilities Phase 1	$12,200	$12,200	NM
ITALY	AVIANO	Air Support Operations Squadron (ASOS) Facility	$10,200	$10,200	NM
NEVADA	CREECH	UAS Airfield Fire/Crash Rescue Station	$11,710	$11,710	NM
NEVADA	NELLIS	F-35 Add/Alter 422 Test Evaluation Squadron Facility	$7,870	$7,870	NM
NEVADA	NELLIS	F-35A Flight Simulator Facility	$13,110	$13,110	NM
NEVADA	NELLIS	F-35A Maintenance Hangar/AMU	$28,760	$28,760	NM
NEVADA	NELLIS	F-35A Add/Alter Flight Test Instrument Facility	$1,900	$1,900	NM
NEW MEXICO	CANNON	Dormitory (96 Room)	$14,000	$14,000	NM
NEW MEXICO	CANNON	UAS Squad Ops Facility	$20,000	$20,000	NM
NEW MEXICO	HOLLOMAN	UAS Add/Alter Maintenance Hangar	$15,470	$15,470	NM
NEW MEXICO	HOLLOMAN	UAS Maintenance Hangar	$22,500	$22,500	NM

STATE/COUNTRY	INSTALLATION	PROJECT	APPROP REQUEST	AUTH REQUEST	TYPE
NEW MEXICO	KIRTLAND	Aerial Delivery Facility Addition	$3,800	$3,800	NM
NEW MEXICO	KIRTLAND	H/MC-130J Construct Fuel System Maintenance Facility	$14,142	$14,142	NM
NEW YORK	FORT DRUM	20th Air Support Operations Squadron	$20,440	$20,440	NM
TEXAS	DYESS	C-130J Add/Alter Flight Simulator Facility	$4,080	$4,080	NM
TEXAS	ELLINGTON FIELD	TFI - Upgrade UAV Maintenance Hangar	$7,000	$7,000	NM
UTAH	HILL	F-22 T-10 Engine Test Cell	$2,800	$2,800	NM
VIRGINIA	LANGLEY	F-22A Add/Alter 3rd Bay LO/CRF Facility	$8,800	$8,800	NM
	TBD	F-35 Simulator Facility	$12,190	$12,190	NM
	TBD	F-35 Squadron Operations Facility	$10,260	$10,260	NM
	TBD	F-35 Academic Training Center	$54,150	$54,150	NM
		New Mission TOTAL:	$439,356	$439,356	
WORLDWIDE UNSPECIFIED	UNSPECIFIED	Planning and Design	$66,336	$66,336	P&D
WORLDWIDE UNSPECIFIED	UNSPECIFIED	Unspecified Minor Construction	$18,000	$18,000	P-341
		Central Program TOTAL:	$84,336	$84,336	
		Active AF Program TOTAL:	1,311,385	1,311,385	

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INSTALLATION	COMMAND	STATE/COUNTRY	PAGE
AL UDEID	CENTCOM	QATAR	265
ANDERSEN	PACAF	GUAM	238
AVIANO	USAFE	ITALY	254
BAGRAM	CENTCOM	AFGHANISTAN	205
BARKSDALE	ACC	LOUISIANA	94
BOLLING	AFDW	DISTRICT OF COLUMBIA	72
BUCKLEY	AFSPC	COLORADO	56
CAMP GUERNSEY	AFSPC	WYOMIMG	192
CANNON	AFSOC	NEW MEXICO	122
CHARLESTON	AMC	SOUTH CAROLINA	158
CREECH	ACC	NEVADA	98
DAVIS-MONTHAN	ACC	ARIZONA	39
DOVER	AMC	DELAWARE	68
DYESS	ACC	TEXAS	162
EGLIN	AFMC	FLORIDA	76
EIELSON	PACAF	ALASKA	25
ELLINGTON	ANG	TEXAS	167
ELMENDORF	PACAF	ALASKA	29
FORT DRUM	ACC	NEW YORK	146
FORT HUACHUCA	ANG	ARIZONA	52
HILL	AFMC	UTAH	184
HOLLOMAN	ACC	NEW MEXICO	129
HURLBURT	AFSOC	FLORIDA	80
KAPAUN ANNEX	USAFE	GERMANY	219
KIRTLAND	AFMC	NEW MEXICO	136
KUNSAN	PACAF	KOREA	261
LACKLAND	AETC	TEXAS	171
LANGLEY	ACC	VIRGINIA	188
MAXWELL	AETC	ALABAMA	21
MCGUIRE	AMC	NEW JERSEY	115
MILDENHALL	USAFE	UNITED KINGDOM	269
MINOT	ACC	NORTH DAKOTA	150
NELLIS	ACC	NEVADA	102
PATRICK	AFSPC	FLORIDA	90
PETERSON	AFSPC	COLORADO	60
RAMSTEIN	USAFE	GERMANY	223
SHAIKH ISA	CENTCOM	BAHRAIN	215
TINKER	AFMC	OKLAHOMA	154
USAF ACADEMY	USAFA	COLORADO	64
VILSECK	USAFE	GERMANY	234

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2011

ECONOMIC CONSIDERATIONS

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

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL

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

ENVIRONMENTAL STATEMENT

In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process (EIAP) has been completed or is actively underway for all projects in the Air Force FY 2011 Military Construction Program.

EVALUATION OF FLOOD PLAINS AND WETLANDS

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

FY 2011

CONGRESSIONAL REPORTING REQUIREMENTS

1. STATEMENTS ON NATO ELIBIBILITY

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

2. STATEMENTS ON COMPLIANCE WITH CONSTRUCTION MANUAL 4210M

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

3. NEW AND CURRENT MISSION ACTIVITIES

The FY 1989 Senate Appropriations Committee Report, 100-380, pages 10 and 11, identified a requirement to include an exhibit in the budget justification books that displayed required projects in two separate categories: New Mission and Current Mission. The CM (current mission) or NM (new mission) designation, which follows the project on the listing at page 9, identifies each project as new or current mission. Additionally, each justification in Block 11 of the DD Form 1391 indicates whether the project supports a new or current mission.

4. REAL PROPERTY ADMINISTRATION

The FY 1977 House Appropriations Committee Report, 104-591, page 11, requested the Department to provide the real property maintenance backlog at all installations for which there is a requested construction project. Each DD Form 1390 reflects this information in block 12. In addition, the report requested all troop housing requests to show all real property maintenance conducted in the past two years and all future requirements for unaccompanied housing at that installation. Each DD Form 1391 for troop housing reflects this information in block 11.

5. METRIC CONVERSION

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

FY 2100

NON-MILCON FUNDING

Research and Development (RDT&E) NONE

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APPROPRIATIONS LANGUAGE

MILITARY CONSTRUCTION, AIR FORCE

For acquisition, construction, installation and equipment of temporary or permanent public works, military installations, facilities and real property of the Air Force as currently authorized by law $1,311,385,000 to remain available until September 30, 2015: Provided that, of this amount, not to exceed $66,336,000 shall be available for study, planning, design and architect and engineer services, as authorized by law, unless the Secretary of Defense determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of his determination and the reasons therefor.

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE ALABAMA	4. COMMAND: AIR EDUCATION AND TRAINING COMMAND	5. AREA CONST COST INDEX 0.82

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	1389	1488	1067	1638	389	0	74	39	909	6,993
END FY 2015	928	1329	1066	1638	389	0	61	34	909	6,354

7. INVENTORY DATA ($000)		
a. Total Acreage:	148	
b. Inventory Total as of : (30 Sep 09)		2,188,398
c. Authorization Not Yet in Inventory:		15,556
d. Authorization Requested in this Program:		13,400
e. Planned in Next Four Years Program:		14,400
f. Remaining Deficiency:		182,751
g. Grand Total:		2,414,505

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
171-356	ADAL AU Library	13,330	SM	13,400	Design	Build
		Total		13,400		

9a. Future Projects: Typical Planned Next Four Years:

724-417	SOC Lodging, Phase V	7,700	SM	14,400		
		Total		14,400		

9b. Real Property Maintenance Backlog This Installation: ($M)	32

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

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MAXWELL AIR FORCE BASE, ALABAMA	ADAL AIR UNIVERSITY LIBRARY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	171-356	PNQS983126	13,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				10,143
ALTER AU TECH & PROFESSIONAL LIBRARY	SM	10,300	660	(6,798)
ADD AU TECH & PROFESSIONAL LIBRARY	SM	1,680	1,653	(2,776)
RENOVATE AU PRESS (BLDG 910)	SM	1,350	211	(284)
SDD & EP ACT 05	LS			(190)
ANTI-TERRORISM FORCE PROTECTION	LS			(95)
SUPPORTING FACILITIES				1,520
UTILITIES	LS			(450)
PAVEMENTS	LS			(350)
SITE IMPROVEMENTS	LS			(220)
TEMPORARY FACILITIES DURING CONSTRUCTION	LS			(275)
ASBESTOS ABATEMENT	LS			(225)
SUBTOTAL				11,663
CONTINGENCY (5.0%)				583
TOTAL CONTRACT COST				12,247
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				698
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				467
TOTAL REQUEST				13,411
TOTAL REQUEST (ROUNDED)				13,400)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(6,100

10. Description of Proposed Construction: Construct a 2-story addition and alter existing space of the Air University Fairchild Research Information Center (FRIC). New construction will reinforce concrete foundation, steel structure, masonry exterior, standing seam metal roof. Alterations include reconfigurating existing space and upgrading mechanical, electrical, structural, and fire protection systems. Renovate Air University Press (AUP), Bldg 910, to include alteration of existing space and upgrade of mechanical, electrical, and fire protection systems. Includes antiterrorism/force protection requirements identified in Department of Defense (DoD) unified facilities criteria.

Air Conditioning: 100 Tons

11. Requirement: 14916 SM Adequate: 1586 SM Substandard: 11650 SM

PROJECT: Add to and alter the Air University Library. (Current Mission)

REQUIREMENT: A facility of adequate size and configuration required to accommodate three divisions: reader services, executive services (500,000 documents, 400,000 books/periodicals, and 650,000 maps), information systems, and technical services. A new addition will provide needed computer stations, seminar rooms, and electronic services. The FRIC and AUP extensively support an average of 20,000 students per year attending Air University (AU) schools. Renovation of the FRIC and AUP will provide efficient, safe and reliable electrical, mechanical, and fire protection systems to comply with current life safety codes. Temporary facilities will need to be provided during alteration for AU Staff and storage space.

CURRENT SITUATION: The Fairchild Research Information Center (FRIC) was built in

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA	4. PROJECT TITLE ADAL AIR UNIVERSITY LIBRARY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	171-356	PNQS983126	13,400

1956. The FRIC mission has increased dramatically because of additional missions added to AU, distance education programs and new technology. The FRIC had to relinquish the 1st and 2nd floors to the School of Advanced Air and Space Studies. There are future plans to increase the class size, resulting in additional space requirements. In the main FRIC complex, there is a need for additional computer stations, instruction room, seminar rooms, and administrative space. The reader services division is impaired by space limitations that could be relieved with reconfiguration of space. The foundation has a moisture penetration problem. The original HVAC system is not energy efficient and does not adequately control humidity within the facility. Lighting levels are substandard. The plumbing fixtures are mostly original, have deteriorated, and are in need of replacement. Restrooms do not meet ADA requirements. The elevator and the existing stack areas (book storage) do not conform to ADA and Life Safety Code spacing, accessibility and emergency egress requirements. The building does not have a fire suppression system (FSD III). The carpet is stained in many locations due to the moisture penetration problem, and exposed wiring can be found throughout the building. The AUP, Bldg 910, was built in 1941. Its support of the FRIC has increased dramatically as well, requiring reconfiguration of spaces to operate more efficiently. Electrical, mechanical, and fire protection systems need updating to comply with current life safety codes.

IMPACT IF NOT PROVIDED: The FRIC will not be able to provide adequate support to AU students because the existing facility, with its space limitations, cannot make available all the new research technology to its patrons. FRIC is the largest military library in the world and the largest library overall outside of the Washington DC area, with contents valued at over $50M. However, many collections housed within the facility are one-of-a-kind and deemed priceless. The facility will remain functionally substandard and require increasingly larger investments of scarce operations and maintenance resources. Substandard building conditions, lack of fire suppression, and the failing HVAC, plumbing, and electrical systems will continue to adversely impact the library mission. Failure to accomplish this project will place the valuable and priceless contents at risk from fire or humidity damage. Air University Press will be unable to provide adequate support to the FRIC because of its current inefficient configuration and outdated electrical, mechanical, and fire protection systems.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Mr. John Prior, (334) 953-6945. Alter AU Tech & Professional Library: 10,300 SM = 110,866 SF. AU Tech & Professional Library Addition: 1,680 SM = 18,083 SF. Renovate AU Press: 1,350 SM = 14,533 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA	4. PROJECT TITLE ADAL AIR UNIVERSITY LIBRARY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	171-356	PNQS983126	13,400

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 402

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
EQUIPMENT	3080	2012	2,700
EQUIPMENT	3400	2011	3,400

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONSTRUCTION COST INDEX
EIELSON AIR FORCE BASE ALASKA	PACIFIC AIR FORCES	2.13

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	164	1,721	217							2,102
END FY 2015	168	1,730	369							2,267

7. INVENTORY DATA ($000)

TOTAL ACREAGE:	19,790	
INVENTORY TOTAL AS OF SEPTEMBER 30 2009:		$4,052,800
AUTHORIZATION NOT YET IN INVENTORY:		$38,300
AUTHORIZATION REQUESTED IN THIS PROGRAM:		$28,000
PLANNED IN NEXT FOUR PROGRAM YEARS:		$50,537
REMAINING DEFICIENCY:		$0
GRAND TOTAL:		$4,169,637

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 20xx)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
821-117	Repair Central Heat and Power Plant Boilers	120,000	LB	$28,000	Design /Build	
			Total	$28,000		

9a. FUTURE PORJECTS: TYPICAL PLANNED NEXT FOUR YEARS:

740-883	Replace Youth Center	1,557	SM	$13,600
821-117	Auxiliary Heat Plant	1,100	SM	$9,937
821-117	Repair Central Heat and Power Plant Boilers	120,000	LB	$27,000
			Total	$50,537

9b. REAL PROPERTY MAINTENANCE BACKLOG THIS INSTALLATION ($M)

10. Mission or Major Functions: Eielson AFB is home to the 354th Fighter Wing. Its mission is to train, deliver, maintain and support combat power across the globe while taking care of our people, their families and our infrastructure; it is host to an operations group with an F-16 squadron, and maintenance, mission support and medical groups, as well as 10 tenant units, to include Alaska's Air National Guard 168th Air Refueling Wing.

11. Outstanding pollution and Safety (OSHA Deficiencies):

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

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE, ALASKA	REPAIR CENTRAL HEAT AND POWER PLANT BOILER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	171-117	FTQW083008	28,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				15,355
REPAIR CENTRAL HEAT AND POWER PLANT BOILER	LB	120,000	125	(15,054)
SDD & EPACT05	LS			(301)
SUPPORTING FACILITIES				8,668
WEIGH SCALES	LS			(10)
SELECTIVE CATALYSTIC REDUCTION SYSTEM	LS			(3,700)
FLUE GAS DESULFERIZATION SYSTEM	LS			(1,000)
EXTERNAL ECONOMIZER	LS			(800)
CONTINUOUS ENVIRONMENTAL MONITORING	LS			(150)
AQUEOUS AMMONIA TANK	LS			(506)
TRONA STORAGE TANK	LS			(400)
DEMOLITION	LS			(2,002)
ENVIRONMENTAL REMEDIATION	LS			(100)
SUBTOTAL				24,023
CONTINGENCY (5.0%)				1,201
TOTAL CONTRACT COST				25,224
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,640
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				961
TOTAL REQUEST				27,825
TOTAL REQUEST (ROUNDED)				28,000

10. Description of Proposed Construction: This phase will replace the spreader stoker boiler #5 (B6203) with a new 120,000 lbs/hr spreader stoker boiler. No additional footprint is anticipated for this replacement. The project includes, but is not limited to: demolition of the existing boiler; purchase and installation of new boiler and all auxiliary equipment to support boiler operation to include, but not limited to: coal feed; ash handling; condensate handling; deaerator and boiler feedwater; soot blowers; boiler combustion air and forced draft fans; boiler flue gas; induced draft fans and stacks; as well as extensions of the plant control; electrical; glycol and steam systems; and installation of emission control equipment to make system fully operational. New environmental control elements (selective catalytic reduction utilizing aqueous ammonia used to control nitrogen oxide and dry flue gas desulfurization used to control sulfur dioxide) will be included as part of the boiler package. Existing baghouses will be utilized. Additionally, a continuous emission monitoring system will be required. This project will comply with DoD antiterrorism force protection requirements per unified facilities criteria.

11. Requirement: 720000 LB Adequate: 0 LB Substandard: 720000 LB

PROJECT: Repair Central Heat and Power Plant (CH&PP). (Current Mission)
REQUIREMENT: Reliable steam production is vital to ensure the base has a continuous supply of heat and electricity for base facilities. Boiler #5, currently derated to 80,000 lb/hr, must be replaced. The boiler will be replaced with a 120,000 lb/hr unit operating at the same steam pressure and temperature as

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE, ALASKA	REPAIR CENTRAL HEAT AND POWER PLANT BOILER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	171-117	FTQW083008	28,000

the existing boiler. The project fits the long-term energy plan for the installation for reliability and redundancy. Project must meet EPA 40 CFR Part 60, AFI 32-1084, and applicable sections of the American Society of Mechanical Engineers Boiler & Pressure Vessel Code.

CURRENT SITUATION: Boiler #5, installed in 1954, has deteriorated well beyond the level of regular maintenance. Insulation and refractory brick have deteriorated significantly resulting in "hot spots" on the boiler casing forcing it to be de-rated to 80,000 lb/hr or 67% of its original capacity. Boiler tube failures are now common due to corrosion, erosion and long term exposure to high heat. The ash handling system has become unreliable due to age, wear and long term exposure to high heat. Maintenance costs have skyrocketed due to the difficulty of obtaining out-of-production components and frequent mechanical failures.

IMPACT IF NOT PROVIDED: Failure of boiler #5 is expected within the next 3-4 years. During typical operations, Eielson's CH&PP provides all electrical power and steam heat for the base. Loss of heat and power during Eielson's sub-arctic winters, with temperatures as low as 65°F below zero, would be devastating to facilities and the missions housed by them within hours. If the situation were deemed critical enough, the base would be forced to consider evacuating facilities due to a lack of heat and power. Once closed, the facilities would freeze and require many millions of dollars of repair to return to usable condition. Completing the planned replacement of all boilers will guarantee continued steam and power generation to support the flying mission.

ADDITIONAL: This project represents the second of a five phase initiative to replace six 50-year old boilers at Eielson's CH&PP with five new boilers over several years. The first phase for $27M was an FY10, Title 10 USC 2803 Emergency MILCON project. This project meets the criteria/scope specified in Air Force 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 exemption has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. BASE CIVIL ENGINEER: Lt Col Daniel J. Gerdes, (907) 377-5213.

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE, ALASKA	REPAIR CENTRAL HEAT AND POWER PLANT BOILER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	171-117	FTQW083008	28,000

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 840

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 JUL

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

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

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST COST INDEX
ELMENDORF AIR FORCE BASE ALASKA	PACIFIC AIR FORCES	1.82

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	777	4,396	816	0	0	0	0	0	0	5,989
END FY 2015	776	4,389	836	0	0	0	0	0	0	6,001

7. INVENTORY DATA ($000)		
a. Total Acreage:	13,452	
b. Inventory Total as of : (30 Sep 09)		4,307,970
c. Authorization Not Yet in Inventory:		307,200
d. Authorization Requested in this Program:		30,274
e. Planned in Next Four Years Program:		118,927
f. Remaining Deficiency:		40,200
g. Grand Total:		4,804,571

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-454	Add Alter Air Support Operations Squadron	1,140	SM	$4,749	May-09	Sep-10
215-552	F-22 Weapons & Release Systems Shop (T	2,594	SM	$10,525	May-09	Sep-10
860-617	Railhead Operations Facility	1	LS	$15,000	May-09	Sep-10
		Total		$30,274		

9a. Future Projects: Typical Planned Next Four Years:

722-351	North Side Dining & In-Flight Kitchen Facilit	809	SM	$6,927
100-001	BCT, Ph 1, JB Elemdorf/Fort Richardson	1	LS	$99,000
179-511	Joint Regional Fire Training Facility	760	SM	$6,600
214-422	Vehicle Ops & Automated Wash Facility	600	SM	$6,400
		Total		$118,927

9b. Real Property Maintenance Backlog This Installation ($M)	53

10. Mission or Major Functions: Elmendorf AFB is home to the 3rd Wing (3 WG), Headquarters Alaskan Command (ALCOM), Alaskan NORAD Region (ANR), and 11th Air Force (11 AF). Its mission provides air supremacy, surveillance, worldwide airlift, and agile combat support forces to project global power and global reach. It host to an operations group with squadrons of F-15C/D, E-3B, C-17, F-22A and C-12 aircraft, maintenance, mission support and medical groups, as well as 15 tenant units including the 477th Fighter Group - Air Force Reserve.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	ADD/ALTER AIR SUPPORT OPERATIONS SQUADRON TRAINING FACILTY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-454	FXSB123201	4,749

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				3,664
TRAINING FACILITY	SM	1,170	3,040	(3,557)
ANTITERROISM FORCE PROTECTION	LS			(35)
SDD & EPACT 05	LS			(72)
SUPPORTING FACILITIES				584
UTILITIES	LS			(102)
PAVEMENTS	LS			(133)
SITE IMPROVEMENTS	LS			(94)
ENVIRONMENTAL CLEANUP	LS			(150)
COMMUNICATIONS	LS			(105)
SUBTOTAL				4,248
CONTINGENCY (5.0%)				212
TOTAL CONTRACT COST				4,460
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				290
TOTAL REQUEST				4,750
TOTAL REQUEST (ROUNDED)				4,749
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(96.0)

10. Description of Proposed Construction: Seven-bay vehicle/equipment storage facility. Accompanying each bay will be secure storage rooms. One bay requires vehicle lift. Secure (classified) briefing room with theater seats for 50 people. Remaining space for two offices, bathrooms with shower, utility, battery maintenance and storage area, wash rack, storage, and mechanical rooms. Enclosed walkway attached to rear doors of building 21309 with keyless external doors. Install fire protection system to UFC standards. Project is sited over a closed environmental site. Export/remediation of in-situ contaminants within the project boundaries and import of clean fill will be accomplished as required. This project will comply with DoD antiterrorism force protection requirements per Unified Facilities Criteria.

11. Requirement: 1170 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Add/Alter Air Support Operations Squadron Training Facility. (New Mission)

REQUIREMENT: Seven-bay vehicle support garage facility required to store tactical air support MRC-144 weapon systems with AN/GRC-206 communications pallet. Six secure keyless entry storage rooms for associated tactical equipment and one storage/bench work space room for logistic/radio maintenance tools/equipment. Briefing/training room to support 50 personnel, and additional office and storage space.

CURRENT SITUATION: Vehicles are currently parked outside in the weather and most of the equipment is being stored in cargo containers or other types of temporary storage, none of which have any type of climate control. There is no fire suppression system to protect the facility.

IMPACT IF NOT PROVIDED: The lack of proper storage facilities for vehicles and equipment will bring about premature failure due to exposure to the elements. The

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	ADD/ALTER AIR SUPPORT OPERATIONS SQUADRON TRAINING FACILTY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-454	FXSB123201	4,749

decreased life span in turn causes more frequent and expensive replacement. The facility will continue to operate without proper fire protection necessary to protect critical assets.

ADDITIONAL: There is no criteria/scope in Air Force Handbook 32-1084, "Facility Requirements". However, this project meets the criteria/scope specified in the Air Force Facilities Guide for Air Support Operations Squadrons. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction, leasing) was done. It indicates there is only one option that will satisfy statutory requirements/will meet operational requirements - add to and alter an existing facility. Because of this a full economic analysis was not performed. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. An associated Fiscal Year 2010 sustainment, repair and maintenance (SRM) project will renovate space in the existing facility to accommodate a dome screen simulator which is scheduled to arrive early in 2011 (Project Number FXSB101059, Program Amount $300,000). Base Civil Engineer: Lt Col Dean H. Hartman, 907-552-3747. Add/AlterAir Support Operations Squadron Training Facility: 1170 SM = 12,600 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	ADD/ALTER AIR SUPPORT OPERATIONS SQUADRON TRAINING FACILTY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-454	FXSB123201	4,749

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-MAY-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	29-JAN-10
(e) Date Design Complete	30-SEP-10
(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	285
(b) All Other Design Costs	142
(c) Total	427
(d) Contract	356
(e) In-house	71
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 APR
(6) Construction Completion	12 APR

* 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)
NETWORK SWITCHES	3400	2011	96

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	CONSTRUCT RAILHEAD OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	904-617	FXSB061827	15,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				10,945
RAILROAD TRACKS, TIES AND BALLAST	M	2,364	2,484	(5,871)
SHIPPPING AND RECEIVING BUILDING	SM	452	3,513	(1,588)
RAILROAD SWITCHES AND STOPS	EA	5	164,600	(823)
STAGING AREA	SM	5,372	28	(150)
CONTAINER TRANSFER PAD	SM	6,034	157	(949)
RAMPS	LS			(1,240)
ANTI-TERRORISM/FORCE PROTECTION	LS			(108)
SDD & EP ACT 05	LS			(216)
SUPPORTING FACILITIES				2,601
ELECTRIC SERVICE	LS			(1,094)
WATER, SEWER, GAS	LS			(260)
PAVING, WALKS, CURBS AND GUTTERS	LS			(291)
STORM DRAINAGE	LS			(60)
SITE IMPROVEMENTS	LS			(672)
INFORMATION SYSTEMS	LS			(224)
SUBTOTAL				13,546
CONTINGENCY (5.0%)				677
TOTAL CONTRACT COST				14,223
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				925
TOTAL REQUEST				15,148
TOTAL REQUEST (ROUNDED)				15,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(80.0)

10. Description of Proposed Construction: Construct a railhead complex to include loading/unloading rail spurs, loading/unloading ramps and staging area for marshaling tactical vehicles, a container transfer pad, shipping and receiving building, security fencing, connection to energy monitoring and control systems (EMCS), and building information systems. Supporting facilities will include: utilities, gates, storm drainage, information systems, lighting, site improvements and information systems. Heating will be provided by a self contained unit. Mechanical ventilation will be provided for in all areas. This project will comply with DoD antiterrorism force protection requirements per unified facilities criteria.

11. Requirement: 2364 M Adequate: 0 M Substandard: 0 M

PROJECT: Construct a Railhead Complex. (Current Mission)

REQUIREMENT: This project will support Airborne Brigade Combat Team (ABCT) and Stryker Brigade Combat Team (SBCT) air and surface deployments, as a rail receiving and shipping hub for all of Alaska Army Units. The SBCT stationed at Ft Wainwright, and the Airborne Combat Team require a rail facility to allow equipment to be shipped by rail to and from the Port of Anchorage. Fort Richardson supports Fort Wainwright during surface deployment operations and re-deployments. The new rail

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ELMENDORF AIR FORCE BASE, ALASKA	4. PROJECT TITLE CONSTRUCT RAILHEAD OPERATIONS FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	904-617	FXSB061827	15,000

operations facility will increase the installation's railcar handling capability by 300 percent. Existing capability is about 30 railcars per day; after completion Fort Richardson will have the loading tracks and supporting infrastructure to handle the required 80-100 railcars per day. The need is due to both transformation of the Army forces structure and also changes in the nature of the mission.

CURRENT SITUATION: The existing facilities consist of lightweight rail and two inadequate end ramps in the warehouse loop area. Current infrastructure will not support required throughput for surface movement required by US Army Alaska. The Stryker vehicle loading and increased movements of both brigades in Alaska is such that rapid rail bed deterioration will occur if the rail system is not upgraded and the facilities augmented with new more substantial facilities and equipment.

IMPACT IF NOT PROVIDED: The existing facilities are not able to meet US Army Alaska's requirement to deploy the Army Units in Alaska within the specified timelines. Rail capability must be provided, at a minimum, which can handle trains of 80-100 railcar units to/from Fort Wainwright, and other locations throughout Alaska.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements and has been coordinated with the installation physical security plan, and all physical security measures are included. The Deputy Assistant Secretary of the Army (Installations and Housing) certifies that this project has been considered for joint use potential. The facility will be available for use by other components. A parametric cost estimate based upon project engineering design was used to develop this budget estimate. Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. Therefore a full economic analysis was not performed and a certificate of exception prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Dean Hartman, 907-552-3007. (Railhead Tracks, Ties and Ballast:: 2,364 M = 7,800 LF; Shipping and Receiving Facility: 452 SM = 4864 SF).

JOINT USE CERTIFICATION: This facility is programmed for joint use with Army; however, it is fully funded by the Air Force, based on funding transferred as part of the establishment of Joint Base Elmendorf/Richardson (JBER).

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	CONSTRUCT RAILHEAD OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	904-617	FXSB061827	15,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	13-MAY-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	29-JAN-10
(e) Date Design Complete	30-SEP-10
(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	900
(b) All Other Design Costs	450
(c) Total	1,350
(d) Contract	1,125
(e) In-house	225
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 APR
(6) Construction Completion	13 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)
INFORMATION SYSTEMS EQUIPMENT	3400	2012	80

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	F-22 ADD/ALTER WEAPONS RELEASE SYSTEMS SHOP & AME (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27138	215-552	FXSB073012	10,525

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				7,600
REPAIR WEAPONS & RELEASE SYSTEMS SHOP	SM	561	5,505	(3,088)
CONSTRUCT AME STORAGE	SM	780	5,500	(4,290)
ANTI-TERRORISM/FORCE PROTECTION	LS			(74)
SDD & EP ACT 05	LS			(148)
SUPPORTING FACILITIES				1,798
UTILITIES	LS			(650)
SITE IMPROVEMENTS	LS			(259)
COMMUNICATIONS	LS			(200)
PAVEMENTS	LS			(655)
DEMOLITION	SM	21	1,619	(34)
SUBTOTAL				9,398
CONTINGENCY (5.0%)				470
TOTAL CONTRACT COST				9,868
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				641
TOTAL REQUEST				10,510
TOTAL REQUEST (ROUNDED)				10,525
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(130.0)

10. Description of Proposed Construction: Renovate existing facility and add new storage facility with concrete foundation meeting Alaska seismic and frost heaving requirements, structural steel frame with insulated metal skin, and standing seam metal roof. New Alternate Mission Equipment (AME) Storage Facility shall have drive-in bays with roll-up doors with minimum 3.7 meter wide by 3.7 meter high openings. Remove and replace vinyl tile in existing facility, refinish concrete floor, paint CMU walls, renovate bathrooms, remove and replace acoustic ceiling tiles, remove and replace HVAC systems, remove and reinstall existing crane in new storage facility, and move gun vault into new storage facility. Projet includes the demolition of a storage shed (21 SM). Work includes fire suppression/ detection, intrusion detection system, environmental controls, communications, utilities, pavements, parking, and all necessary supporting facilities for a complete and usable facility including appropriate environmental remediation. This project will comply with DoD anti-terrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 40 Tons

11. Requirement: 2952 SM Adequate: 0 SM Substandard: 652 SM

PROJECT: Add/Alter F-22 Weapons and Release Systems Shop. (New Mission)

REQUIREMENT: Renovation of existing facility and addition of storage space is required to support the beddown of 36 F-22 fighter aircraft. An adequately sized and configured shop is required to provide space to maintain F-22 weapons release launch systems and associated equipment. The equipment maintained in this shop includes gun systems, gun feed systems, weapons pylons, weapon suspension equipment, launchers, launcher adapters, Universal Ammunition Loading System, and

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ELMENDORF AIR FORCE BASE, ALASKA	4. PROJECT TITLE F-22 ADD/ALTER WEAPONS RELEASE SYSTEMS SHOP & AME (TFI)	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27138	215-552	FXSB073012	10,525

chassis. The shop must also include adequate space for a wash rack, gun cleaning room, maintenance offices, bench stock room, inspection, repair, tool/equipment issue, Alternate Mission Equipment (AME), and storage space for test equipment, mobility equipment and guns. The facility must have adequate lighting and grounding. The armament systems maintenance shop will be an approved area for temporary explosive storage of class 1.4 munitions requiring a 100 foot clear zone.

CURRENT SITUATION: The existing facility is significantly undersized for existing F-15 requirements, and cannot accommodate additional requirements driven by the F-22. Spare guns must be kept in a modified mechanical room because there is no other dedicated space for this purpose. Storage space is not adequate for the AME that must be stored.

IMPACT IF NOT PROVIDED: Adequate space will not exist for maintenance of F-22 weapons systems, impacting readiness and proficiency for both the F-22 and the F-15. Guns will continue to be stored in an unsafe manner. The lack of this shop could result in significant degradation of operational capability and increase the potential for a serious mishap.

ADDITIONAL: This project meets the criteria/scope specified in "F/A-22 Facilities Requirements Plan Rev. W" 15 December 2008, and in Air Force Handbook 32-1084 "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) was done. Add/Alter was found to be the most cost efficient over the life of the project. Therefore, a certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Dean Hartmann (907) 552-3007. Repair Weapons & Release Systems Shop: 561 SM = 6,036 SF; Construct AME Storage: 780 SM = 8,393 SF.

JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of this project is based on Air Force requirements. This project supports Total Force Integration initiatives.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELMENDORF AIR FORCE BASE, ALASKA	F-22 ADD/ALTER WEAPONS RELEASE SYSTEMS SHOP & AME (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27138	215-552	FXSB073012	10,525

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-MAY-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	29-JAN-10
(e) Date Design Complete	30-SEP-10
(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	632
(b) All Other Design Costs	316
(c) Total	948
(d) Contract	790
(e) In-house	158
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 APR
(6) Construction Completion	12 OCT

* 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)
FURNITURE	3400	2011	100
COMMUNICATIONS EQUIPMENT	3400	2011	30

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	AIR COMBAT COMMAND	0.97

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	1013	5686	1749	0	553	0	2	24	471	9,498
END FY 2015	1041	5856	1721	0	553	0	2	24	471	9,668

7. INVENTORY DATA ($000)		
a. Total Acreage:	10,953	
b. Inventory Total as of : (30 Sep 09)		1,916,244
c. Authorization Not Yet in Inventory:		26,200
d. Authorization Requested in this Program:		18,900
e. Planned in Next Four Years Program:		31,982
f. Remaining Deficiency:		62,500
g. Grand Total:		2,055,826

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
211-173	AMARG Hangar	7,130	SM	25,000	Design Build	
218-712	HC-130 AGE Maintenance Facility	1,022	SM	4,600	Design Build	
141-782	HC-130J Aerial Cargo Facility	2,325	SM	10,700	Design Build	
442-758	HC-130J Parts Store	2,323	SM	8,200	Design Build	
		Total		48,500		

9a. Future Projects: Typical Planned Next Four Years:				
218-712	AGE Facility	6,657	SM	14,000
141-821	Packing & Crating Center	3,000	SM	9,500
610-281	Consolidated Mission Support Center	2,365	SM	8,482
		Total		31,982

9b. Real Propery Maintenance Backlog This Installation: ($M)	161

10. Mission or Major Functions: Headquarters 12th Air Force; a wing with two fighter training squadrons responsible for training all A/OA-10 aircrews; one A/OA-10 fighter squadron, two EC-130 electronic combat squadrons, Combat Search and Rescue, a tactical air control wing; an Air Force Reserve HH-60 rescue squadron; and Air Force Material Command's Aerospace Maintenance and Regeneration Center.

11. Outstanding Pollution and Safety (OSHA Deficiencies):	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

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

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	211-173	FBNV063501	25,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				19,911
LARGE MAINTENANCE DOCK	SM	5,788	2,825	(16,351)
ADMIN/RECORDS/TECH ORDER STORAGE	SM	1,342	2,277	(3,056)
ANTITERRORISM FORCE PROTECTION	LS			(168)
SDD EP ACT 2005	LS			(336)
SUPPORTING FACILITIES				1,866
UTILITIES	LS			(680)
PAVEMENTS	LS			(480)
SITE IMPROVEMENTS	LS			(200)
COMMUNICATION SUPPORT	LS			(170)
DEMOLITION	SM	1,342	250	(336)
SUBTOTAL				21,776
CONTINGENCY (5.0%)				1,089
TOTAL CONTRACT COST				22,865
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,303
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				871
TOTAL REQUEST				25,040
TOTAL REQUEST (ROUNDED)				25,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(35

10. Description of Proposed Construction: Construct a metal frame high bay hangar with split-face block, reinforced concrete foundation, and concrete slabs on grade, and standing seam metal roof large enough to support two medium sized aircraft for maintenance, repair, reclamation and inspection. Facility should include storage for technical orders, records, tool cribs, and equipment. Facility should include fire detection/protection, site improvements, utilities, parking, multi-purpose storage, electric operated hangar doors, and an access road from the project site to the nearest existing road. Site improvements include replacement communications. Demolish one facility totalling 1,342 SM. Comply with DoD force protection requirements per Unified Facilities Criteria.

Air Conditioning: 120 Tons

11. Requirement: 7130 SM Adequate: 0 SM Substandard: 1342 SM

PROJECT: Aerospace Maintenance & Regeneration Group (AMARG) Hangar. (Current Mission)

REQUIREMENT: Modern high bay maintenance hangar required to support maintenance, repair, and inspection for planned Air Force regeneration/reclamation of C-130, KC-135, and P-3 aircraft to support Foreign Military Sales along with returning aircraft to DoD services and other federal and state agencies. This project will provide maintenance space with clear height of 52 feet to house two KC-135 aircraft. Facility will support fuel cell work, aircraft jacking, landing gear removal and replacement, engine removal/installation, flight control rigging and Technical Order (TO) procedures required to survey and repair air frame distortion and warping. Additional support space is needed for a technical order library,

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	4. PROJECT TITLE AMARG HANGAR	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	211-173	FBNV063501	25,000

records storage, tool cribs, and equipment storage.

CURRENT SITUATION: No facilities at AMARG are large enough to house long wingspan, medium sized aircraft. All aircraft maintenance, regeneration, and reclamation work on these size aircraft takes place outside. Outdoor regeneration of aircraft are subject to frequent wind gusts and inclement weather conditions (summer ambient temperatures exceed 100 degrees F). Aircraft temperatures have been measured at 130-140 degrees F and have destructive effects on exposed cockpit instruments, interior fabric and electrical/electronic devices. During 9 months per year (because of outside temperatures) fuel cell work can only be accomplished for a few hours per day in the early morning hours. Fuel cell work requires cells to be open and exposed for long periods of time which can easily become contaminated from blowing sand and dirt. When aircraft are removed from storage and left outside unsealed, they become susceptible to solid particle contamination of fluid reservoirs and intrusions from rodents, birds, and other desert animals. Access panel and fuel cells must be removed and replaced daily to keep contamination and desert animals out of the aircraft. Aircraft towed out of the desert and worked on the open ramp for regeneration are required to have multiple gear retractions to ensure a safe landing gear system. This requires the aircraft to be jacked and lowered daily to meet safety concerns. Prior to return to service, a transit check of the airframes is accomplished to determine if there is any distortion or warping from storage. The technical order procedures require no greater than 4 degrees per hour change in temperature during the testing, which is difficult to obtain working outdoors. During periods of high winds most work must cease. Outdoor work has resulted in numerous delays in scheduling and increased labor costs to the customer.

IMPACT IF NOT PROVIDED: Basic operation and mission functions will continue to degrade as a result of regenerating aircraft from storage working outside in a harsh desert environment. Existing procedures create schedule delays due to changing weather conditions resulting in extended flow days, creating additional cost and delaying the delivery of aircraft to our customers. In addition, worker safety, morale, and efficiency will continue to be sub-standard and ultimately limit AMARG's mission to respond in support of DoD aircraft operations and Department of State Foreign Military Sales objectives.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084. An economic analysis has been prepared comparing the alternatives of new construction, contracting out, and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Sustainable principles, to include Life Cycle Cost-Effective practices will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Charles D. Perham, (520) 228-3401. Large maintenance Dock: 5,788 SM = 62,275 SF; Admin/Records/Tech Order Storage: 1,342 SM = 14,450 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	4. PROJECT TITLE AMARG HANGAR	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	211-173	FBNV063501	25,000

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 750

(4) Construction Contract Award 11 JAN

(5) Construction Start 11 FEB

(6) Construction Completion 13 FEB

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
SYSTEMS FURNITURE	3400	2011	20
COMMUNICATION EQUIPMENT	3080	2011	15

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

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

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	218-712	FBNV113007	4,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				2,704
HC-130 AGE MAINTENANCE FACILITY	SM	1,022	2,569	(2,626)
SDD & EPACT 05	LS			(52)
ANTITERRORISM/FORCE PROTECTION	LS			(26)
SUPPORTING FACILITIES				1,297
UTILITIES	LS			(140)
SITE IMPROVEMENTS	LS			(340)
PAVEMENTS	LS			(366)
COMMUNICATIONS SUPPORT	LS			(160)
PASSIVE FORCE PROTECTION MEASURES	LS			(30)
POWERED AGE FUELING STATION W/PUMP	LS			(143)
LIQUID OXYGEN HANDLING AREA	LS			(118)
SUBTOTAL				4,001
CONTINGENCY (5.0%)				200
TOTAL CONTRACT COST				4,201
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				239
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				160
TOTAL REQUEST				4,600
TOTAL REQUEST (ROUNDED)				4,600)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(300

10. Description of Proposed Construction: Construct AGE maintenance facility with structural metal panels and split-face block, reinforced concrete foundation and floor slab, structural steel frame, standing seam metal roof, fire detection/ protection, utilities, site improvements, landscaping, parking, concrete facility aprons, liquid oxygen (LOX) area, fueling station, concrete aircraft towways, walkways, communications support, pavements demolition and all other necessary support for a complete and usable facility. This project will comply with antiterrorism/force protection requirements identified in DoD Unified Facilities Criteria.

Air Conditioning: 40 Tons

11. Requirement: 13894 SM Adequate: 2452 SM Substandard: 1719 SM

PROJECT: HC-130J AGE Maintenance Facility. (New Mission)

REQUIREMENT: Adequate space is required to perform AGE maintenance in support of Combat Search and Rescue (CSAR) mission requirements. The facility will house the functions that provide AGE maintenance and storage to sustain and increase the readiness of the CSAR Center of Excellence community. Provide all required concrete towways and aprons for vehicle and aircraft access, powered AGE fueling station, liquid oxygen (LOX) handling area, and a 5-ton bridge crane integral to the structure.

CURRENT SITUATION: There are no facilities available that can be efficiently modernized to accept this AGE requirement as part of the CSAR weapon system beddown. When the mission arrives, CSAR personnel will be required to carry out

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

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

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	218-712	FBNV113007	4,600

their objectives in inadequate facilities and on the ramp in harsh environmental conditions. This project requirement and scope was identified as part of the HQ ACC Facilities Site Survey 16-20 April 2007.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform essential CSAR maintenance operations forcing inadequate and high risk workarounds. The potential for significant degradation of mission performance and capabilities, including damage to equipment, will be increased until eventual total loss of mission capability is realized due to aircraft non-availability. CSAR will not be able to generate aircraft without the appropriate support from the AGE mission.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and the CSAR Facility Requirement Plan. An analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicates there is only one option that meets operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Charles D. Perham, (520) 228-3401. (CSAR AGE Maintenance Facility: 1,022 SM = 11,000 SF)

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	4. PROJECT TITLE HC-130 AGE MAINTENANCE FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	218-712	FBNV113007	4,600

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 138

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 MAR

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	200
FURNISHINGS	3400	2011	100

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	HC-130J AERIAL CARGO FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	141-782	FBNV113002	10,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				7,346
HC-130J AERIAL CARGO FACILITY	SM	2,325	3,068	(7,133)
SDD & EPACT 05	SM	2,325	61	(141)
ANTITERRORISM/FORCE PROTECTION	SM	2,325	31	(72)
SUPPORTING FACILITIES				1,925
UTILITIES	LS			(307)
PAVEMENTS/DEMOLITION	LS			(447)
SITE IMPROVEMENTS	LS			(101)
COMMUNICATIONS SUPPORT	LS			(265)
CONCRETE APRON	LS			(600)
PASSIVE FORCE PROTECTION	LS			(205)
SUBTOTAL				9,271
CONTINGENCY (5.0%)				464
TOTAL CONTRACT COST				9,734
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				555
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				371
TOTAL REQUEST				10,660
TOTAL REQUEST (ROUNDED)				10,700)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(120

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, split-face block, structural steel frame, standing seam metal roof, fire detection/protection, utilities, evaporative cooling in administrative space only, site improvements, landscaping, access roads, parking, concrete facility aprons, concrete aircraft towways, walkways, communications support, pavements demolition and all other necessary support facilities for a complete and usable facility. This project will comply with antiterrorism/force protection requirements identified in DoD Unified Facilities Criteria.

Air Conditioning: 15 Tons

11. Requirement: 2325 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct HC-130J Aerial Cargo Facility. (New Mission)

REQUIREMENT: Adequate space is required to process, maintain and store HC-130J Aerial Cargo for Combat Search and Rescue (CSAR) assets. The facility must house the aerial cargo mission that provides palletting and crating of deployable and contingency assets required to maintain and increase the readiness of the CSAR Center of Excellence community. Provide all required concrete towways and aprons for vehicle and aircraft access. Provide 5-Ton Bridge Crane integral to the structure.

CURRENT SITUATION: There are currently no facilities on the installation that can be modernized or renovated to accept the new aerial cargo mission as part of the CSAR mission beddown. When the mission arrives, CSAR personnel will be required to carry out their objectives in inadequate facilities.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION DAVIS-MONTHAN AIR FORCE BASE, ARIZONA		4. PROJECT TITLE HC-130J AERIAL CARGO FACILITY	
5. PROGRAM ELEMENT 27224	6. CATEGORY CODE 141-782	7. PROJECT NUMBER FBNV113002	8. PROJECT COST ($000) 10,700

essential CSAR HC-130J flight and aerial cargo support operations forcing inadequate and high risk workarounds. The potential for significant degradation of mission performance and capabilities will be increased. In addition, due to the inadequate work environment, morale of Air Force personnel will be lowered resulting in reduced productivity.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and the CSAR Facility Requirements Plan. An analysis of all reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicates there is only one option that meets operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Charles D. Perham, (520) 228-3401. (HC-130J Aerial Cargo Facility: 2,325 SM = 25,000 SF).

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	4. PROJECT TITLE HC-130J AERIAL CARGO FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	141-782	FBNV113002	10,700

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 321

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 MAR

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	95
FURNISHINGS	3400	2011	25

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	HC-130J PARTS STORE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	442-758	FBNV103005	8,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				5,910
HC-130J PARTS STORE	SM	2,323	2,478	(5,756)
SDD & EPACT 05	SM	2,323	44	(102)
ANTITERRORISM/FORCE PROTECTION	SM	2,323	22	(51)
SUPPORTING FACILITIES				1,222
UTILITIES	LS			(160)
PAVEMENTS	LS			(160)
SITE IMPROVEMENTS	LS			(217)
COMMUNICATIONS SUPPORT	LS			(105)
PASSIVE FORCE PROTECTION MEASURES	LS			(30)
CONNECT FIRE SUPPRESSION TO CENTRAL PLANT	LS			(550)
SUBTOTAL				7,132
CONTINGENCY (5.0%)				357
TOTAL CONTRACT COST				7,488
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				427
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				285
TOTAL REQUEST				8,200
TOTAL REQUEST (ROUNDED)				8,200)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(175

10. Description of Proposed Construction: Construct HC-130J Parts Store facility with structural metal panels and split-face block, reinforced concrete foundation and floor slab, structural steel frame, standing seam metal roof, fire detection/ protection, utilities, site improvements, landscaping, parking, screen walls, concrete facility aprons, concrete aircraft towways, walkways, communications support, pavements demolition and all other necessary support facilities for a complete and usable facility. This project will comply with antiterrorism/force protection requirements identified in DoD Unified Facilities Criteria.

Air Conditioning: 60 Tons

11. Requirement: 21593 SM Adequate: 18489 SM Substandard: 781 SM

PROJECT: HC-130J Parts Store. (New Mission)

REQUIREMENT: Adequately sized and configured space is required to maintain and store the parts and assemblies necessary to maintain the HC-130J aircraft. The facility will house the maintenance, repair and new parts functions that provide required aircraft support to sustain and increase the readiness of the CSAR Center of Excellence community. Provide all required concrete towways and aprons for vehicle and aircraft access. Provide 5-Ton Bridge Crane integral to the structure.

CURRENT SITUATION: There are no facilities available that can be efficiently modernized on the installation to accept the parts storage requirement as part of the CSAR weapon system beddown. When the mission arrives, CSAR personnel will be required to carry out their objectives in inadequate facilities with limited access to the critical parts and assemblies required to maintain the HC-130J aircraft. This project requirement and scope was identified as part of the HQ ACC Facilities

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	HC-130J PARTS STORE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	442-758	FBNV103005	8,200

Site Survey 16-20 April 2007.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform essential CSAR parts storage forcing inadequate and high risk workarounds. The potential for significant degradation of mission performance and capabilities, including damage to equipment, will be increased until eventual total loss of mission capability is realized due to aircraft non-availability. CSAR will not be able to generate aircraft without the appropriate parts to support from the maintenance mission.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and the CSAR Facility Requirements Plan. An analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicates there is only one option that meets operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Charles D. Perham, (520) 228-3401. (CSAR HC-130J Parts Store: 2,323 SM = 25,000 SF)

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	4. PROJECT TITLE HC-130J PARTS STORE	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	442-758	FBNV103005	8,200

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 246

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 MAR

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	100
FURNISHINGS	3400	2011	75

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION FORT HUACHUCA ARIZONA	4. COMMAND: AIR NATIONAL GUARD	5. AREA CONST COST INDEX 1.1

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09 END FY 2015										

7. INVENTORY DATA ($000)

a. Total Acreage:	
b. Inventory Total as of : (30 Sep 09)	
c. Authorization Not Yet in Inventory:	
d. Authorization Requested in this Program:	11,000,000
e. Planned in Next Four Years Program:	0
f. Remaining Deficiency:	
g. Grand Total:	11,000,000

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
211-111	TFI-PREDATOR LRE BEDDOWN	2,109	SM	11,000		
		Total		11,000		

9a. Future Projects: Typical Planned Next Four Years:

9c. Real Property Maintenance Backlog This Installation:

10. Mission or Major Functions:

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
US ARMY INTELLIGENCE CENTER, FT HUACHUCA, ARIZONA	TFI - PREDATOR LRE BEDDOWN

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
25219	211-111	WACC113330	11,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				7,266
HANGAR, MAINTENANCE	SM	1,922	2,898	(5,570)
LAUNCH AND RECOVERY ELEMENT	SM	186	2,659	(495)
RAMP/TAXIWAY ACCESS	LS			(990)
SDD & EPACT 05	LS			(141)
ANTITERRORISM/FORCE PROTECTION	LS			(70)
SUPPORTING FACILITIES				2,755
UTILITIES	LS			(650)
PAVEMENTS	LS			(600)
SITE IMPROVEMENTS	LS			(605)
COMMUNICATIONS SUPPORT	LS			(305)
STANDBY POWER	LS			(120)
FIRE PROTECTION SUPPORT	LS			(475)
SUBTOTAL				10,021
CONTINGENCY (5.0%)				501
TOTAL CONTRACT COST				10,522
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				600
TOTAL REQUEST				11,121
TOTAL REQUEST (ROUNDED)				11,000

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, steel framed masonry walls, and sloped standing seam metal roof. Exterior walls should be architecturally compatible with nearby facilities. Construction includes interior walls, fire protection, utilities, and mechanical systems. Provides exterior utilities, pavements, site improvements, fire protection, communications extension and support. Provides access ramp, taxiway access to hangar, access roads and other pavement support. Constructs concrete pad and support utilities for mobile Ground Control Station with communications connectivity to the support facility. Provides standby power and communications support. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 100 Tons

11. Requirement: 2108 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: TFI - Predator Aircraft-Launch and Recovery Element (LRE) (New Mission)

REQUIREMENT: The Arizona Air National Guard (ANG) requires a properly sized and configured maintenance hangar and supporting shops at Fort Huachuca to support a Predator unit mission of 4 PAA unmanned aerial systems (UAS) scheduled to arrive in 2010. The mission requires hangar space configured to adapt to multiple aircraft types with minimal supporting shops, properly sized for contractor operations and a launch and recovery cell. Shop support includes scaled-down general purpose shops, aircraft maintenance unit, engine shop, avionics/electronic pod shop, and weapons release and systems maintenance management. The LRE requires robust redundant communications support with connectivity to two communications switches.

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
US ARMY INTELLIGENCE CENTER, FT HUACHUCA, ARIZONA	TFI - PREDATOR LRE BEDDOWN

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
25219	211-111	WACC113330	11,000

Communications requirements include NPRNet, SPRNet, JWICS, DSN and video-link capabilities. The LRE space includes: administrative, latrine facilities, break area, controlled entry space, communications closet, and a SCIF. The complex requires standby power. Special fire suppression system controls are required to prevent a false system dump which would severely damage the aircraft.

CURRENT SITUATION: The Arizona ANG has been selected to gain a Predator unit. Fort Huachua's Libby Field will support a PAA of four (4) MQ-1 aircraft. The US Army and US Border Patrol currently operate multiple UAS from Libby Field. A site survey conducted in 2006 indicated current facilities were not available to support the mission and must be constructed. Required communications switches and limited allied support are available at the selected site. The site currently has no utility support to include water storage tanks for fire protection and suppression. Considerable earthwork must be accomplished prior to construction. Construction of ramp lighting, taxiway and ramp access is also required.

IMPACT IF NOT PROVIDED: The Arizona ANG MQ-1 unit will not be mission capable. Predator aircrew training will be delayed. Aircrew access to facilities to maintain currency in launch and recovery of MQ-1 aircraft will be severely restricted. Opportunities to partner with the US Boder Patrol and the US Department of Homeland Security will be lost.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project was done. It indicates new construction is the only option that will meet operational requirements. A certificate of exception will be prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Carol Kenny, Phone 520-295-6258. (Hangar: 1192 SM = 12,831 SF; LRE: 186 SM = 2,002 SF)

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components. This project supports Total Force Integration initiatives.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
US ARMY INTELLIGENCE CENTER, FT HUACHUCA, ARIZONA	TFI - PREDATOR LRE BEDDOWN

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
25219	211-111	WACC113330	11,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JAN-10
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-MAR-10
(e) Date Design Complete	30-SEP-10
(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	660
(b) All Other Design Costs	330
(c) Total	990
(d) Contract	825
(e) In-house	165
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 AUG

* 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

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
BUCKLEY AIR FORCE BASE	AIR FORCE SPACE	COST INDEX
COLORADO	COMMAND	1.01

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 09	92	631	397	0	0	0	365	1998	1411	4,894
END FY 2015	86	605	403	0	0	0	355	1962	1406	4,817

7. INVENTORY DATA ($000)

Total Acreage:	3,832	
Inventory Total as of : (30 Sep 09)		619,247
Authorization Not Yet in Inventory:		18,905
Authorization Requested in this Program:		12,160
Planned in Next Four Years Program:		28,324
Remaining Deficiency:		44,470
Grand Total:		723,106

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
730-835	Security Forces Operations Facility	3,323	SM	12,160	Design	Build
		Total		12,160		

9a. Future Projects: Typical Planned Next Four Years:

911-146	101 Acre Land Acquisition	101	AC	8,324
610-675	Logistics Readiness Facility	2,290	SM	10,000
730-441	Library/Education Center	2,193	SM	10,000
		Total		28,324

9b. Real Propery Maintenance Backlog This Installation: ($M) 30.2

10. Mission or Major Functions: The mission of the 460th Space Wing is to provide combatant commanders with expeditionary warrior Airmen, and deliver global infrared surveillance, tracking, and missile warning for theater and homeland defense.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR FORCE BASE, COLORADO	SECURITY FORCES OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31476	730-835	CRWU073004	12,160

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				8,797
SECURITY FORCES OPERATIONS FACILITY	SM	3,323	2,550	(8,474)
INTERIOR COMMUNICATIONS SUPPORT	LS			(68)
ANTITERRORISM FORCE PROTECTION	LS			(85)
SDD & EP ACT 2005	LS			(170)
SUPPORTING FACILITIES				1,775
UTILITIES	LS			(590)
SITE IMPROVEMENTS	LS			(210)
PAVEMENTS	LS			(540)
EXTERIOR COMMUNICATIONS SUPPORT	LS			(150)
SPECIAL FOUNDATION	LS			(285)
SUBTOTAL				10,572
CONTINGENCY (5.0%)				529
TOTAL CONTRACT COST				11,100
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				633
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				423
TOTAL REQUEST				12,156
TOTAL REQUEST (ROUNDED)				12,160)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,290

10. Description of Proposed Construction: A two-story steel frame structure with reinforced concrete foundation and floor slab for expansive soils with standing seam metal roof, fire protection, HVAC, electrical and plumbing systems and 6mm laminated blast resistant tinted insulated glass. Demolish and dispose of the temporary modular trailers. Complies with DoD force protection requirements per unified facilities criteria.

Air Conditioning: 90 Tons

11. Requirement: 3323 SM Adequate: 0 SM Substandard: 1797 SM

PROJECT: Construct a Security Forces Operations Facility. (Current Mission)

REQUIREMENT: When Buckley Air Force Base transitioned to an Air Force Space Command (AFSPC) installation on 1 Oct 2000, there was no Security Forces Operations Facility (SFOF). This project constructs an adequately sized and configured SFOF that corrects numerous deficiencies by incorporating the following functional areas: a properly configured law enforcement desk, detention cells, central security control, resource protection, personnel security, information security, combat training facilities, an arms vault, supply and mobility area, guard mount area, operations and command sections, administrative space, and areas for storage and janitorial services, into one centrally located facility. Additionally, as part of this project, a Central Security Control Room and Base Defense Operations Center will be sized for Buckley's growing mission and current Protection Level 1 resource.

CURRENT SITUATION: Security Forces Operations functions are currently split between facilities, one immediately adjacent to the Protection Level 1 resource and

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE, COLORADO		4. PROJECT TITLE SECURITY FORCES OPERATIONS FACILITY	
5. PROGRAM ELEMENT 31476	6. CATEGORY CODE 730-835	7. PROJECT NUMBER CRWU073004	8. PROJECT COST ($000) 12,160

its Main Entry Control Point and the other in the Colorado Air National Guard Wing Headquarters. The Protection Level 1 facility was originally sized for a small unit manned just for protection of the Protection Level 1 resource thus is undersized to support current requirements. A Vulnerability Assessment Survey performed by Lackland AFB identified numerous deficiencies with the current facility. The December 2000 Facilities Utilization Study found the Security Forces (SF) facilities undersized by 1,636 square meters. The existing facilities do not contain a properly configured law enforcement desk, detention cells, training rooms, weapons vault, evidence room and Emergency Command Center. Currently a portion of SFOF is housed in modular trailers in the parking lot adjacent to the Protection Level 1 facility in an effort to co-locate as much as possible all of the SFOF functions. These modular trailers cost tens of thousands of dollars each year that will be saved once an adequately sized and configured SFOF is constructed.

IMPACT IF NOT PROVIDED: The Security Forces Squadron will continue to need/use Operational Risk Management while in non-compliance with security policy. Vehicles and personnel will remain dispersed at various facilities in order to alleviate vulnerabilities and overcrowded conditions. Agreements for use of the Colorado Air National Guard facilities and their Headquarters facility will continue diminishing the efficiencies of both the Colorado Air National Guard functions and Buckley's already understaffed Security Forces Squadron. The lack of detention cells will continue to burden Security Forces with excessive transportation of confined personnel to and from off-base facilities. Taxpayer's dollars will continue to be used to lease modular trailers to house security forces functions. Our troops will not receive the best possible training before being deployed. This project is essential in providing the much needed training space for our deploying troops and supporting the current and expanding mission requirements at Buckley AFB thus enhancing our national security.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". An analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) will meet operational requirements. It indicates that only one option, new construction, will meet operational requirements. A certificate of exception has been prepared. Sustainable principles to include Life Cycle Cost-Effective Practices will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (2), and other applicable laws and Executive Orders. Base Civill Engineer: Lt Col George Petty, (702) 847-6501. Security Forces Operations Facility: 3,323 SM = 35,756 SF.

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE, COLORADO	4. PROJECT TITLE SECURITY FORCES OPERATIONS FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31476	730-835	CRWU073004	12,160

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 365

(4) Construction Contract Award 11 JAN

(5) Construction Start 11 FEB

(6) Construction Completion 12 SEP

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	2011	1,041
COMMUNICATIONS EQUIPMENT	3080	2011	249

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
PETERSON AIR FORCE BASE	AIR FORCE SPACE	COST INDEX
COLORADO	COMMAND	1.07

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 09	189	1123	645	0	0	0	1446	2034	2336	7,773
END FY 2015	174	1083	649	0	0	0	1367	1965	2460	7,698

7. INVENTORY DATA ($000)		
Total Acreage:	1,277	
Inventory Total as of : (30 Sep 09)		433,330
Authorization Not Yet in Inventory:		50,345
Authorization Requested in this Program:		24,800
Planned in Next Four Years Program:		18,000
Remaining Deficiency:		269,209
Grand Total:		795,684

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-454	RAIDRS Space Control Facility	4,408	HC	24,800	Jul-09	Sep-10
		Total		24,800		

9a. Future Projects: Typical Planned Next Four Years:

871-183	Peterson East Stormwater Drainage	3,350	LM	6,200
740-674	Fitness Center Annex	3,606	SM	11,800
		Total		18,000

9b. Real Property Maintenance Backlog This Installation: ($M)	47.9

10. Mission or Major Functions: The mission of the 21st Space Wing is to conduct world class space superiority operations and provide unsurpassed installation support and protection while deploying Warrior Airmen. The 21st SW provides worldwide missile warning and space control to unified commanders, NORAD, US NORTHCOM, US STRATCOM, and combat forces. 21 SW also manages the global space surveillance network that detects, tracks, and catalogs all man-made objects in space and also provides early warning of strategic and theater ballistic missile attacks and foreign space launches.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PETERSON AIR FORCE BASE, COLORADO	RAIDRS SPACE CONTROL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35936	141-454	TDKA093005	24,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				19,811
RAIDRS SPACE CONTROL FACILITY	SM	4,408	3,961	(17,460)
INTERIOR COMMUNICATIONS	LS			(1,829)
ANTITERRORISM/FORCE PROTECTION	LS			(174)
SDD & EPACT05	LS			(348)
SUPPORTING FACILITIES				1,760
UTILITIES	LS			(465)
PAVEMENTS	LS			(880)
EXTERIOR COMMUNICATIONS	LS			(85)
SITE IMPROVEMENTS	LS			(210)
CONCRETE PADS	LS			(120)
SUBTOTAL				21,571
CONTINGENCY (5.0%)				1,079
TOTAL CONTRACT COST				22,650
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,291
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				863
TOTAL REQUEST				24,804
TOTAL REQUEST (ROUNDED)				24,800)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,350

10. Description of Proposed Construction: Concrete foundation, floor slab, steel frame structure, brick veneer with backup masonry block; built-roof; sound transmission class 45-55 rated Senstive Compartmented Information Facility (SCIF) walls; security systems; sprinkler protection; concrete foundation; humidity control, heating, ventilation and air-conditioning system; utility connections to water, sanitary sewer, storm sewer, communications, and electric; and other building systems required for a complete and usable facility. Site work includes paved parking lot, landscaping, and security fencing. Communications features to include secure and non-secure telephone and local area networks. Includes exterior concrete pads for realistic training and maintaining operational crew proficiency and special security provisions to keep existing classified missions operational during construction. The facility will comply with DOD antiterrorism/force protection requirements per Unified Facilities Criteria and with PL 2 physical security standards per AFI 31-101, "Air Force Installation Security Program."

Air Conditioning: 80 Tons

11. Requirement: 8248 SM Adequate: 3840 SM Substandard: 0 SM

PROJECT: Construct a Rapid Attack Identification Detection & Reporting System (RAIDRS) Space Control Facility. (New Mission)

REQUIREMENT: A facility is required to support the new RAIDRS mission, operated and maintained by the 16th Space Control Squadron (SPCS). RAIDRS is AFSPC's space defense capability, consisting of worldwide fixed site and deployable Satellite Communication (SATCOM) monitoring systems. RAIDRS provides US STRATCOM with the capability to monitor communication links supporting warfighters for interference

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION PETERSON AIR FORCE BASE, COLORADO		4. PROJECT TITLE RAIDRS SPACE CONTROL FACILITY	
5. PROGRAM ELEMENT 35936	6. CATEGORY CODE 141-454	7. PROJECT NUMBER TDKA093005	8. PROJECT COST ($000) 24,800

and to geolocate the source of detected interference. 16 SPCS is AFSPC's deployable, combat-ready space unit, trained and equipped to operate and maintain RAIDRS fixed and deployable assets. Project will be constructed inside the 76 SPCS compound on Peterson East to enable collaboration and cooperation between similar operations and system technologies, both operated by 21st SW squadrons. RAIDRS requires a SCIF facility to include a 24-hour operational control center responsible for command and control of both fixed and deployable RAIDRS systems. Due to the classified and sensitive nature of deployable electronic components and test equipment, covered and environmentally controlled storage is crucial. Enclosed bay areas with sufficient power are also required for maintenance activities on antennas, generators, and storage of classified equipment. An appropriately sized personal equipment storage area (locker room) is necessary to enable squadron personnel to immediately deploy in accordance with mission requirements. Includes approximately 560 SM for 380 SPCS Reserve unit. Facility must have classified communications, specialized power configuration, and a security system.

CURRENT SITUATION: RAIDRS has currently been provided temporary bed-down space in building 504, and building 880. Bldg 504 houses the RAIDRS control center and office space for a fraction of the squadron's staff. In addition, building 504 does not currently maintain the security measures required of a PL2 protected asset. Building 880 is currently on the demolition list and is inadequate to support long term missions.

IMPACT IF NOT PROVIDED: The RAIDRS command and control center will continue to operate without appropriate security protection measures as specified by AFI 31-101. 16th SPCS members will devise band-aid solutions to address deficit office space/equipment storage/training/maintenance requirements. Squadron members will operate out of geographically separated offices, resulting in reduced ops tempo and mission proficiency. The 21st Space Wing will lease off-site storage areas to house deployable equipment when in garrison. 16th SPCS airmen will expend an additional 16,000 hours/year traveling and transporting equipment from off-site storage to temporary training & exercise locations. System maintenance will be conducted in generic facilities, adding further to member workload to accomplish unique activities in substandard locations. Airmen will continue to work in substandard office areas designated for demolition. The 16th's vital training mission will be adversely diminished due to additional effort and time spent for travel from remote locations.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicates new construction is the only option that will meet operational requirements. A certificate of exception has been prepared. Sustainable principles to include Life Cycle Cost-Effective practices will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (2), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Arno J. Bischoff, (719) 556-7631. RAIDRS Space Control Facility: 4,408 SM = 47,430 SF.

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PETERSON AIR FORCE BASE, COLORADO	4. PROJECT TITLE RAIDRS SPACE CONTROL FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35936	141-454	TDKA093005	24,800

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 744

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 DEC

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE & FURNISHINGS	3400	2011	1,000
COMMUNICATIONS EQUIPMENT	3080	2011	550
SECURITY EQUIPMENT	3080	2011	800

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
USAF ACADEMY	UNITED STATES AIR FORCE	COST INDEX
COLORADO	ACADEMY	1.11

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	929	1011	2483	0	182	0	21	4000	190	8,816
END FY 2015	902	872	2223	0	182	0	21	4000	190	8,390

7. INVENTORY DATA ($000)		
Total Acreage:	53,276	
Inventory Total as of : (30 Sep 09)		429,549
Authorization Not Yet in Inventory:		63,500
Authorization Requested in this Program:		27,600
Planned in Next Four Years Program:		29,607
Remaining Deficiency:		36,000
Grand Total:		586,256

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2010)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
171-853	Center for Character & Leadership Development	4,322	SM	27,600	May-09	Sep-09
		Total		27,600		

9a. Future Projects: Typical Planned Next Four Years:

730-835	Emergency Operations Center	2,667	SM	13,978
730-839	Large Vehicle Search Facility	1,074	SM	9,629
730-839	Constyruct Canopy for Entrance Gates	2	EA	6,000
		Total		29,607

9b. Real Propery Maintenance Backlog This Installation: ($M) 187

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

11. Outstanding pollution and Safety (OSHA Deficiencies:

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

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY, COLORADO	CONST CENTER FOR CHARACTER & LEADERSHIP DEVELOPMENT

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
86076	171-853	XQPZ084017	27,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				19,830
ADD TO ARNOLD HALL FOR CCLD	SM	2,421	5,200	(12,589)
ANTI-TERRORISM/FORCE PROTECTION	LS			(193)
SDD & EP ACT 2005	LS			(386)
ALTER ARNOLD AND HARMON HALL FOR CCLD	SM	1,911	3,486	(6,662)
SUPPORTING FACILITIES				5,039
UTILITIES	LS			(2,050)
SITE IMPROVEMENTS	LS			(1,589)
COMMUNICATION	LS			(1,400)
SUBTOTAL				24,869
CONTINGENCY (5.0%)				1,243
TOTAL CONTRACT COST				26,112
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,488
TOTAL REQUEST				27,601
TOTAL REQUEST (ROUNDED)				27,600
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(6,000.0)

10. Description of Proposed Construction: Reinforced concrete footings, concrete slab, steel column and beam structure,aluminum/granite/glass wall system and membrane roof system with exposed aggregate or Honor Court style walkways. The facility includes security, fire detection/suppression systems, utilities and all other support requirements. Geo-thermal, photovoltaic and other energy-reducing systems will be used to construct this facility. This facility will be designed to a LEED Platinum Standard. All construction will be accomplished on a 7-foot grid pattern to match the US Air Force Academy international architecture style. The project will comply with DoD force protection requirements per Unified Facilities criteria.

Air Conditioning: 120 Tons

11. Requirement: 4332 SM Adequate: 0 SM Substandard: 1911 SM

PROJECT: Construct Center For Character & Leadership Development (CCLD). (Current Mission)

REQUIREMENT: The Center for Character & Leadership Development (CCLD) requires a right-sized, properly configured, consolidated facility for effective and efficient operations for the 4,400-person cadet wing, 240-person prep school and the 3,885 members of the US Air Force Academy staff and faculty it supports. This facility is required in the cadet area of the US Air Force Academy to focus efforts of character and leadership development. This project will decrease inefficiencies, increase effectiveness, and tie to the Air Force priorities: partner with joint and coalition teams to win today's fight, develop and care for Airmen and their families and modernize our air and space inventories, organizations and training. Created in 1993, the Center for Character Development's mission is to facilitate character development programs and activities throughout all aspects of the US Air Force Academy experience. Its objective is to graduate officers who have integrity and voluntarily decide to do the right thing. The Center for Character &

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY, COLORADO	CONST CENTER FOR CHARACTER & LEADERSHIP DEVELOPMENT

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
86076	171-853	XQPZ084017	27,600

Leadership Development is composed of four divisions: Honor Division, Character and Leadership Education Division, the Capstone Events Division, and the Scholarship Division. The Scholarship Division is the newest member of CCLD and performs research and assessment. The Honor Division's mission is to produce leaders of integrity. The cadets learn the ethical foundation and the spirit of the Honor Code, and honor system administration. Honor education and honor probation are two aspects of the development process. In both of these programs, cadets interact with 100 volunteer mentors and the role models. The Character and Leadership Education Division delivers five graduation-required seminors during the four-year cadet experienece. Over 900 volunteer mentors related valuable character and leadership lessons as they facilitate discussions with cadets through 150 seminars annually.

CURRENT SITUATION: The Center for Character Development is expanding and transforming into the Center for Character & Leadership Development, which entails a mission increase (adding a Scholarship Division for research and assessment), and increased manning (from 19 to 34 full-time members over a 3-year period). A new facility is required to accommodate the transformed Center and set the standard of excellence demanded of such a vital organization. The current Center is spread among facilities in 3 different buildings (48% of required space), and must conduct 40% of its cadet seminars (approximately 65 per year) outside the Cadet Area due to facility limitations, at an additional cost of approximately $70K per year. This also creates a transportation cost, causes cancellations during inclement weather, and more importantly adds about one hour of unproductive travel time for over 2,300 junior and senior cadets each year.

IMPACT IF NOT PROVIDED: Day-to-day operations of the CCLD will continue to be ineficient and less effective. A consolidated CCLD is required to implement the Character and Leadership Development program which is the bedrock for the future leaders of the United States Air Force. Without this consolidated facility, operations and training will continue to degrade with a wide array of mission work-arounds, which are neither effective nor efficient.

ADDITIONAL: This project meets the criteria and scope specified in Air Force Handbook (AFH) 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status-quo, renovation, lease space, new construction) indicates that new construction is the most economical solution to meet the mission. A certificate of exception has been prepared. Sustainable principles to include Life Cycle Cost-Effective practices will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Justin C. Davey, (719) 333-2660. Add to Arnold Hall for CCLD: 2,421 SM = 26,050 SF; Alter Arnold Hall for CCLD: 1,911 SM = 20,562.

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

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY, COLORADO	CONST CENTER FOR CHARACTER & LEADERSHIP DEVELOPMENT

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
86076	171-853	XQPZ084017	27,600

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	10-MAY-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	10-JAN-10
(e) Date Design Complete	15-SEP-10
(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	1,656
(b) All Other Design Costs	828
(c) Total	2,484
(d) Contract	2,084
(e) In-house	400
(4) Construction Contract Award	11 JAN
(5) Construction Start	11 MAR
(6) Construction Completion	13 MAR

* 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	3080	2012	2,000
FURNISHINGS	3400	2012	4,000

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

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

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	507	4235	709	0	0	0	0	0	0	5,451
END FY 2015	504	4137	706	0	0	0	0	0	0	5,347

7. INVENTORY DATA ($000)		
a. Total Acreage:	3,400	
b. Inventory Total as of : (30 Sep 09)		1,353,020
c. Authorization Not Yet in Inventory:		149,000
d. Authorization Requested in this Program:		3,200
e. Planned in Next Four Years Program:		28,000
f. Remaining Deficiency:		72,000
g. Grand Total:		1,605,220

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
171-618	C-5M/C-17 Maint Trng Fac Ph 2	731	SM	3,200	Aug 09	Jul 10

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

211-111	Maintenance Hangar, Phase 1	6,250	SM	28,000
		Total		28,000

9b. Real Property Maintenance Backlog This Installation ($M):	110

10. Mission or Major Functions: An airlift wing with one C-5 squadron, one C-17 squadron; and an AFRC Associate C-5 airlift wing.

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DOVER AIR FORCE BASE, DELAWARE	C-5M/C-17 MAINTENANCE TRAINING FACILITY, PH 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41119	171-618	FJXT113001	3,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				2,434
MAINTENANCE TRAINING DEVICE FACILITY	SM	731	3,231	(2,362)
ANTITERRORISM FORCE PROTECTION	LS			(24)
SDD & EP ACT 2005	LS			(48)
SUPPORTING FACILITIES				472
UTILITIES	LS			(65)
PAVEMENTS	LS			(325)
SITE IMPROVEMENTS	LS			(57)
COMMUNICATION SUPPORT	LS			(25)
SUBTOTAL				2,906
CONTINGENCY (5.0%)				145
TOTAL CONTRACT COST				3,051
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				174
TOTAL REQUEST				3,225
TOTAL REQUEST (ROUNDED)				3,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(300.0)

10. Description of Proposed Construction: Single story facility with two high bays, instructional area, office space, and workspace. Facility to include reinforced concrete foundation and floor slab, masonry exterior walls, metal sloped roof, structural framing, fire protection suppression system, electrical, mechanical, and appurtenances. This project will comply with DoD antiterrorism force protection requirements per unified facilities criteria.

11. Requirement: 1532 SM Adequate: 801 SM Substandard: 0 SM

PROJECT: C-5M/C-17 Maintenance Training Facility Phase 2. (New Mission)

REQUIREMENT: A Maintenance Training Facility is required to support new Maintenance Training Devices (MTD). The MTD provides tools and classrooms to furnish specialized hands-on instruction for C-17 engine maintenance. This facility is essential for initial efficiency maintenance qualification training, skill level upgrade training, proficiency training, and system development/augmentation upgrade training. This on-site training facility is essential to provide these initial and on-going training methods and procedures that otherwise not be available through other training avenues. Facility includes maintenance training device bays, training, briefing/debriefing rooms, and administrative offices. This facility will accommodate students, instructors, maintenance support, and administrative personnel. Force protection measures will comply with minimum DOD standards.

CURRENT SITUATION: Dover AFB does not have a MTD facility. There is no unoccupied facility on base that could be renovated to accomplish this mission. Construction of a new MTD facility is essential to support the C-17 beddown.

IMPACT IF NOT PROVIDED: Without training devices in place, maintenance training will need to be accomplished on assigned operational aircraft. Both maintenance and flying training will be hindered due to lack of adequate training time. The safe operation of the C-17 aircraft will not be accomplished without providing a

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DOVER AIR FORCE BASE, DELAWARE	4. PROJECT TITLE C-5M/C-17 MAINTENANCE TRAINING FACILITY, PH 2	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41119	171-618	FJXT113001	3,200

required MTD facility. Training at another location will incur additional TDY costs and a negative impact on maintenance due to maintainers being in transit for training.

ADDITIONAL: This project is Phase 2 of two phases to provide a maintenance training device facility for Dover AFB. This project meets the scope/criteria specified in Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs. Therefore, a complete economic analysis was not performed. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction project in accordance with Executive Order 13423 , 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Thomas Davison, (302) 677-6768. Maintenance Training Device Facility: 731 SM = 2,464 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DOVER AIR FORCE BASE, DELAWARE	C-5M/C-17 MAINTENANCE TRAINING FACILITY, PH 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41119	171-618	FJXT113001	3,200

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	21-AUG-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	35%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	192
(b) All Other Design Costs	96
(c) Total	288
(d) Contract	240
(e) In-house	48
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 MAR

* 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)
FURNITURE FIXTURE EQUIPMENT	3400	2012	75
BRIDGE CRANE	3080	2011	225

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
BOLLING AIR FORCE BASE	AIR FORCE DISTRICT	COST INDEX 1.02
WASHINGTON, DC	OF WASHINGTON	

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 09	324	1154	773	0	0	0	650	1630	826	5,357
END FY 2015	323	1143	823	0	0	0	649	1610	836	5,384

7. INVENTORY DATA ($000)

Total Acreage: 607

Inventory Total as of : (30 Sep 09)	488,970
Authorization Not Yet in Inventory:	10,296
Authorization Requested in this Program:	13,200
Planned in Next Four Year Program:	8,837
Remaining Deficiency:	24,000
Grand Total:	545,303

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-461	Joint Air Defense Operations Center	2,100	SM	13,200	Jun-09	Sep-10
		Total		13,200		

9a. Future Projects: Typical Planned Next Four Years:

171-158	Add/Alter Band Bldg 2	1,860	SM	8,837		
		Total		8,837		

9b. REAL PROPERTY MAINTENANCE BACKLOG THIS INSTALLATION 49

10. MISSION OR MAJOR FUNCTIONS:Organizes, trains, equips, and deploys expeditionary combat forces for the AEF. Provides comprehensive wartime base operating support to all AF personnel in the National Capital Region, as well as MAJCOM-level, programming and comptroller support, and UCMJ authority for Headquarters AF (HAF) and AF elements worldwide. Produces ceremonial and musical effects worldwide to boost troop moral, improve community relations, bolster recruiting support, and represent the AF for CSAF, HAF, Joint Staff, and OSD.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA	JOINT AIR DEFENSE OPERATIONS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-461	BXUR105000	13,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				8,538
JOINT AIR DEFENSE OPERATIONS CENTER	SM	2,100	3,778	(7,934)
RAISED FLOOR/EQUIPMENT COOLING	LS			(217)
RELOCATE ANTENNAE	LS			(150)
SDD & EPACT 05	LS			(158)
ANTITERRORISM/FORCE PROTECTION	LS			(79)
SUPPORTING FACILITIES				3,356
UTILITIES	LS			(515)
PAVEMENTS	LS			(310)
SITE IMPROVEMENTS	LS			(275)
COMMUNICATIONS	LS			(1,880)
SECURITY FENCING	LS			(250)
RELOCATE GENERATOR	LS			(50)
DEMO EXISTING FENCING/ RESURFACE PARKING LOT	LS			(76)
SUBTOTAL				11,894
CONTINGENCY (5.0%)				595
TOTAL CONTRACT COST				12,488
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				712
TOTAL REQUEST				13,200
TOTAL REQUEST (ROUNDED)				13,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,800.0)

10. Description of Proposed Construction: Two-story facility with reinforced concrete foundation, floor slab, steel framing, masonry exterior walls, standing seam metal roof, fire detection/protection, utilities, pavements, site improvements, landscaping, communication support, security fencing, relocation of a generator and all other necessary support. This project will comply with antiterrorism/force protection requirements identified in DoD Unified Facilities Criteria.

Air Conditioning: 125 Tons

11. Requirement: 5864 SM Adequate: 0 SM Substandard: 1072 SM

PROJECT: Joint Air Defense Operations Center (JADOC). (New Mission)

REQUIREMENT: In October 2003, the Secretary of Defense directed the stand-up of the National Capital Region Integrated Air Defense (NCR-IAD). Under NORAD, JADOC defends the National Capital Region and national civilian leadership through the integrated employment of AF alert aircraft, weapons-quality radar, ground-based air defense systems, visual warning equipment, and multi-level C4I. The stand-up was directed via an EXORD using deployed AEF and Army National Guard TDY manning. JADOC was later designated an enduring mission. In December 2006, AF/CV directed JADOC normalization through a permanent AF unit. ACC/A3Y is working to stand-up this unit to support the operation. This action is listed within the SATAF process as PPlan 07-21 and requires a permanent facility including adequate space for the

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA	JOINT AIR DEFENSE OPERATIONS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-461	BXUR105000	13,200

operations center, administrative offices, SCIFs, training and briefing rooms, a loading dock and storage, maintenance bench space supporting 30 NCR satellite locations, a computer/equipment room large enough to accommodate secure and unsecured C4I systems.

CURRENT SITUATION: JADOC operates 24/7/365 from 17 connected or co-located temporary facilities (trailers). The temporary facilities do not provide adequate security or force protection/antiterrorism measures. They are grossly undersized and the limited space is not configured in a manner for efficient operations. Further, the lack of adequate support space forces JADOC to house mission-essential spares in ad-hoc, minimally-secured storage units (CONEX boxes) dispersed throughout the NCR. Satellite site personnel (approximately 200) lack office and training space to conduct daily business, forcing them to work out of rental vehicles and apartments. The temporary nature of the facilities causes environmental and rodent problems. Rodents have chewed through wires taking down the fire alarm system as well as the security alarm system leaving this PL-3 unit unsecured and at risk. Repairs/rewiring are a recurring cost. Additional funds are spent to maintain and repair these temporary facilities. Roof leaks have required repair and plumbing had to be re-done because the sewer system did not have the required elevations leading to backed-up toilets.

IMPACT IF NOT PROVIDED: Continuing at-risk use of temporary facilities that do not meet mission requirments, personnel support, standard facility or security requirements for a PL-3 asset. Operations will remain inefficient while attempting to coordinate mission efforts through 17 trailers. Continued threat of losing alarm systems and the power to run a zero fail mission protecting critical national/governmental infrastructures. Failure places the Capital region at risk.

ADDITIONAL: This project meets the criteria/scope specified in the Air Force Handbook 32-1084, "Facility Requirements". An analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicale laws and Executive orders. This is phase I of two phased requirement, each phase is independently complete and usable. Base Civil Engineer: Lt Col Gregory McClure, 202-767-5565. Joint Air Defense Operations Center: 2,100 SM = 22,596 SF.

JOINT USE CERTIFICATION: This facility is programmed for joint use with Army; however, it is fully funded by the Air Force.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA	JOINT AIR DEFENSE OPERATIONS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-461	BXUR105000	13,200

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	30-JAN-10
(e) Date Design Complete	30-SEP-10
(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	792
(b) All Other Design Costs	396
(c) Total	1,188
(d) Contract	792
(e) In-house	396
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	2,200
FURNISHINGS	3400	2011	600

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE FLORIDA	4. COMMAND: AIR FORCE MATERIEL COMMAND	5. AREA CONST COST INDEX 0.94

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	726	2,776	3,156	0	0	0	502	2,552	434	10,146
END FY 2015	726	2,560	3,300	0	0	0	563	2,931	447	10,527

7. INVENTORY DATA ($000)

Total Acreage:	463,452	
Inventory Total as of : (30 Sep 09)		3,657,509
Authorization Not Yet in Inventory:		177,050
Authorization Requested in this Program:		11,400
Planned in Next Four Years Program:		94,300
Remaining Deficiency:		210,450
Grand Total:		4,150,709

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
211-179	F-35 Fuel Cell Maintenance Hangar	2,265	SM	11,400	DESIGN-BUILD	
		Total		11,400		

9a. Future Projects: Typical Planned Next Four Years:

218-868	Regional PMEL Facility	2,537	SM	14,600
130-142	Flightline Fire Station	3,155	SM	16,500
742-674	Fitness Center	13,303	SM	51,000
721-312	Dormitory (96 RM)	3,168	SM	12,200
		Total		94,300

9b. Real Propery Maintenance Backlog This Installation: ($M) 116

10. Mission or Major Functions: Eglin's primary function is to support research, development, test and evaluation (RDT&E) of conventional weapons and electronic systems. It also provides support for individual and joint training of operational units. Eglin AFB is home to the Air Armament Center (AAC), a unit of the Air Force Material Command. It supports approximately 25 associate units, including: 33rd Fighter Wing, Air Combat Command, 53rd Wing, Air Combat Command, U.S. Air Force Special Operations Command (Hurlburt Field) and 16th Special Operations Wing (SOW). 919th SOW, U.S. Air Force Reserve (Duke Field). 20th Space Surveillance, U.S. Air Force Space Command, 6th Ranger Training Battalion, U.S. Army (Ranger School), U.S. Navy (Naval Explosive Ordnance Disposal School and Choctaw Field), Alabama Army National Guard, and the Federal Bureau of Investigation.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	F-35 FUEL CELL MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	211-179	FTFA073908	11,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				7,123
MAINTENANCE DOCK	SM	1,550	3,260	(5,053)
AIRCRAFT MAINTENANCE ORGANIZATIONAL SHOP	SM	715	2,599	(1,858)
ANTITERRORISM/FORCE PROTECTION	LS			(71)
SDD & EP ACT 05	LS			(141)
SUPPORTING FACILITIES				2,830
SITE IMPROVEMENTS	LS			(300)
PAVEMENTS	LS			(540)
UTILITIES	LS			(748)
FACILITY DEMOLITION	SM	1,747	300	(524)
ENVIRONMENTAL REMEDIATION	LS			(500)
COMMUNICATIONS	LS			(218)
SUBTOTAL				9,953
CONTINGENCY (5.0%)				498
TOTAL CONTRACT COST				10,451
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				596
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				398
TOTAL REQUEST				11,445
TOTAL REQUEST (ROUNDED)				11,400)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,000

10. Description of Proposed Construction: Multi-story/high-bay sprinkler equipped facility consisting of a concrete foundation, split-faced concrete block (metal ribbed wall panels over 6 foot split-faced base on hangar side) over a steel frame and sloped standing seam metal roof. Facility includes administrative space and hangar space consisting of appropriate environmental controls to perform fuel cell maintenance on four fighter aircraft simultaneously. Project requires the demolition of one building (1,747 SM). Project complies with DoD anti-terrorism/force protection requirements per the Unified Facilities Criteria.

Air Conditioning: 100 Tons

11. Requirement: 2265 SM Adequate: 0 SM Substandard: 1747 SM

PROJECT: F-35 Fuel Cell Maintenance Hangar. (New Mission)

REQUIREMENT: A facility capable of performing fuel cell maintenance on the F-35 Joint Strike Fighter is neccessary per Air Force Occupational, Safety and Health Standards as well as Maintenance Technical Orders. The sortie rate and frequency of maintenance events drives the requirement of a three-bay facility once Eglin AFB reaches its capacity of F-35s.

CURRENT SITUATION: The current ACC 33 FW Fuel Systems Maintenance Dock is building 1339. It currently has no fire suppression system and the facility is five decades old. Applicable instructions and criteria dictate that new mission beddown must not utilize facilities that are without appropriate fire suppression.

IMPACT IF NOT PROVIDED: Without this project being executed in 2011, the F-35 beddown at Eglin cannot be effectively and efficiently implemented. Work arounds

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA		4. PROJECT TITLE F-35 FUEL CELL MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-179	7. PROJECT NUMBER FTFA073908	8. PROJECT COST ($000) 11,400

would not allow maintnenance personnel to keep fuel cell inspections and maintenance on schedule and susbsequently result in aircraft that are not fully mission capable.

ADDITIONAL: The criteria/scope for this project is contained in AFH 32-1084, Facility Requirements and the Joint Strike Fighter Facility Requirements Document developed by the Lockheed Martin Aeronautics Company and amended to reflect needs validated in the SATAF process. A preliminary analysis of reasonable options was accomplished comparing alternatives of status quo, renovation, addition/alteration, and new construction. It indicates the only option that will meet operational requirements is new construction. Because of this, a full economic analysis was not performed. A certificate of exception was prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Col. David Maharrey Jr, 850-882-2876 (ext. 200). Fuel Systems Maintenance Dock: 1,550 SM = 16,678 SF; Aircraft Maintenance Shop: 715 SM = 7,693 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA	4. PROJECT TITLE F-35 FUEL CELL MAINTENANCE HANGAR	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	211-179	FTFA073908	11,400

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 342

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3400	12	250
FURNISHINGS	3400	12	250
MAINTENANCE EQUIPMENT	3400	12	500

1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE JUL 2009
INSTALLATION AND LOCATION HURLBURT FIELD FLORIDA	COMMAND: AIR FORCE SPECIAL OPERATIONS COMMAND	5. AREA CONST COST INDEX 0.94

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 09	1,250	5,304	784	0	0	0	173	784	100	8,395
END FY 2015	1,259	5,332	783	0	0	0	173	784	100	8,431

7. INVENTORY DATA ($000)

a. Total Acreage:	6,634	
b. Inventory Total as of : (30 Sep 09)		936,711
c. Authorization Not Yet in Inventory:		58,837
d. Authorization Requested in this Program:		34,670
e. Planned in Next Four Year Program:		27,953
f. Remaining Deficiency:		126,850
g. Grand Total:		1,185,021

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-454	ADAL Special Operations School Facility	1,845	SM	6,170	Mar 09	Sep 10
724-417	Add to Visiting Quarters	1,200	SM	4,500	May 09	Sep 10
442-758	Base Logistics Facility	14,405	SM	24,000	Feb 09	Sep 10
		Total		34,670		

9a. FUTURE PROJECTS: Typical Planned Next Four Years:

730-441	Professional Development and Ed Cntr	1,560	SM	7,550
141-454	AF Oper Erer Simul & Trng Cntr	2,625	SM	10,400
610-121	Vehicle Ops Admin Facility	1,687	SM	6,500
851-147	Realign Independence Road	2,286	LM	3,503
		Total		27,953

9b. Real Propery Maintenance Backlog This Installation: ($M) 112

10. MISSION OR MAJOR FUNCTIONS: Headquarters Air Force Special Operations Command; a Special Operations Wing (SOW) with AC-130, MC-130, MH-53, CV-22, Non-Standard Aviation (NSA), and Aviation Foreign Affairs Special Operations Squadrons (SOS); Air Force Special Operations School; a Special Tactics Group (STG); Air Force Command and Control Training & Innovation Group; a RED HORSE squadron; and the Air Force Combat Weather Center.

11. OUTSTANDING POLLUTION AND SAFETY (OSHA)DEFICIENCIES:

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

DD Form 1390, 24 Jul 00

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD, FLORIDA	ADAL SPECIAL OPERATIONS SCHOOL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-454	FTEV023013	6,170

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				4,563
ADD TO AF SOS FACILITY	SM	1,845	2,250	(4,151)
ALTER EXISTING AF SOS FACILITY	LS			(280)
ANTITERRORISM/FORCE PROTECTION	LS			(44)
SDD & EPACT05	LS			(88)
SUPPORTING FACILITIES				997
UTILITIES	LS			(197)
PAVEMENTS	LS			(290)
COMMUNICATION SYSTEM	LS			(190)
SITE IMPROVEMENTS	LS			(120)
ELEVATOR	LS			(200)
SUBTOTAL				5,560
CONTINGENCY (5.0%)				278
TOTAL CONTRACT COST				5,838
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				333
TOTAL REQUEST				6,171
TOTAL REQUEST (ROUNDED)				6,170
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(550.0)

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls and sloped metal roof. Construction includes structural reinforcement of exterior walls, fully insulated glass windows, utilities, parking and all other necessary support. The project will comply with antiterrorism/force protection requirements per the Unified Facilities Criteria.

Air Conditioning: 85 Tons

11. Requirement: 13243 SM Adequate: 11398 SM Substandard: 0 SM

PROJECT: ADAL Special Operations School (SOS) Facility. (Current Mission)

REQUIREMENT: This project is required to provide a properly configured addition to the Air Force SOS building to meet the growth of 50 additional personnel to the faculty and training center staff. It will also provide additional student classroom space to conduct training. This is due to increased demand for SOS courses and academic programs, as well as the development of specific educational courses to combat terrorism. This addition will house the command suite, administrative office space, academic office space, and secure seminar-styled classrooms and workspaces for the AF SOS.

CURRENT SITUATION: The school currently trains 6,500 military and civilian personnel annually (including other DoD services, agencies, and allied support personnel). The existing building is inadequate for the expanded faculty, staff and student body of the AF SOS programs. With the increased demand of training required for Air Force personnel and other Services, the staff has outgrown the current facility. Demand for courses and academic programs has steadily increased since 9-11. Additionally, the development of new courses and training requirements relating to Command and Control, Psychological Operations, and Space Operations has

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HURLBURT FIELD, FLORIDA	4. PROJECT TITLE ADAL SPECIAL OPERATIONS SCHOOL FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-454	FTEV023013	6,170

increased the need for secure, seminar-styled classrooms and workspaces. There are no facilities on base that could be improved or converted to meet this increased demand.

IMPACT IF NOT PROVIDED: Lack of adequate administrative and secure academic space will adversely impact the mission of the school. Without the facility the personnel will not receive the training skills needed to deploy to remote locations and conduct team operations in a joint environment with other US agencies and other nations' forces. Without this addition, the school will continue to use inadequate and overcrowded temporary structures to support faculty and staff and more will be required in the future. Planned course expansion and SOF subject improvements, primarily for courses requiring Secure Compartmented Information Fcility (SCIF) classrooms, will be delayed. This shortfall in critical education availability will degrade capability and limit the ability to adjust to new global threats and evolving missions supporting the Global War on Terrorism.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." All known alternative options were considered during the development of this project. No other option could meet the mission requirement; therefore, no economic analysis was needed or performed. A certificate of exemption has been prepared. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Base Civil Engineer: Maj Eric R Sosa, 850/884-7702. Special Operations: 1845 SM = 19,850 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD, FLORIDA	ADAL SPECIAL OPERATIONS SCHOOL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-454	FTEV023013	6,170

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	18-MAR-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	370
(b) All Other Design Costs	185
(c) Total	555
(d) Contract	463
(e) In-house	92
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 JUL

* 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)
SYSTEM FURNITURE	3400	2012	450
COMMUNICATIONS EQUIPMENTS	3400	2012	100

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD, FLORIDA	ADD TO VISITING QUARTERS (24 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	724-417	FTEV023010	4,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				3,360
VQ ADDITION (24 ROOMS)	SM	1,200	2,743	(3,292)
ANTITERRORISM/FORCE PROTECTION	LS			(12)
SDD & EP ACT 05	SM	1,200	47	(56)
SUPPORTING FACILITIES				695
UTILITIES	LS			(275)
PAVEMENTS	LS			(220)
SITE IMPROVEMENTS	LS			(150)
COMMUNICATION SYSTEM	LS			(50)
SUBTOTAL				4,055
CONTINGENCY (5.0%)				203
TOTAL CONTRACT COST				4,258
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				243
TOTAL REQUEST				4,500
TOTAL REQUEST (ROUNDED)				4,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(182.0)

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls and sloped metal roof. Rooms to have combination living/bedroom with bath and support space for housekeeping equipment and storage. Includes utilities, parking and all other necessary support. Comply with DOD force protection requirements per unified facilities criteria.

Air Conditioning: 29 Tons

11. Requirement: 320 RM Adequate: 133 RM Substandard: 108 RM

PROJECT: Construct an addition to Visiting Quarters (VQ). (Current Mission).

REQUIREMENT: This project is required to provide adequate living quarters to accommodate transient personnel at Hurlburt Field. A Needs Assessment Study completed in August 2003 determined that the requirement for on-base visiting quarters is 320 rooms per day. There are currently only 133 adequate rooms available. This project will increase the number of adequate rooms by adding 24 rooms to an existing facility. This facility was originally configured to support an addition of this size.

CURRENT SITUATION: Since 1998, the occupancy rate has consistently been 93%. During peak periods, the lack of adequate on-base quarters forces approximately 150 persons per night to find lodging off-base. The availability and cost of off-base quarters fluctuates dramatically because of the local tourist based economy. On average, the cost for the base to support personnel in off-base contract quarters exceeds $1 million per year. Personnel deferred to contract quarters are forced to drive between 10-30 miles from the base. Depending on traffic conditions, travel time from these locations can take between 20-45 minutes.

IMPACT IF NOT PROVIDED: Transient personnel will continue to be housed off-base at a cost exceeding $1 million per year. Forced use of off-base quarters will have an adverse affect on training and mission rehearsal activities and will degrade morale, productivity and career satisfaction of transient personnel.

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HURLBURT FIELD, FLORIDA		4. PROJECT TITLE ADD TO VISITING QUARTERS (24 RM)	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 724-417	7. PROJECT NUMBER FTEV023010	8. PROJECT COST ($000) 4,500

ADDITIONAL: This project meets the criteria/scope specified in and Air Force Handbook 32-1084, "Facility Requirements". A preliminary analysis of reasonable options (status quo, leasing, new construction) indicates there is only one option that will effectively meet the operational, statutory, and security criteria of functions required. Consequently, a full economic analysis was not performed. A Certificate of exception has been prepared. Sustainable principles, to include life cycle cost-effective practice, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Stephen Loken; Phone 850-884-7701. Add to Visiting Quarters: 1,200 SM = 12,916 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD, FLORIDA	ADD TO VISITING QUARTERS (24 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	724-417	FTEV023010	4,500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	13-MAY-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	30-SEP-09
(e) Date Design Complete	30-SEP-10
(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	270
(b) All Other Design Costs	135
(c) Total	405
(d) Contract	340
(e) In-house	65
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	11 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE	3400	2011	132
COMMUNICATIONS EQUIPMENT	3400	2011	50

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD, FLORIDA	BASE LOGISTICS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	442-758	FTEV043016	24,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				17,998
BASE LOGISTICS FACILITY	SM	14,405	1,213	(17,473)
ANTITERRORISM/FORCE PROTECTION	LS			(175)
SDD & EPACT 05	LS			(350)
SUPPORTING FACILITIES				3,665
UTILITIES	LS			(290)
COMMUNICATION SYSTEM	LS			(280)
DEMOLITION	SM	11,673	51	(600)
ACCESS ROAD	LS			(65)
ELEVATORS	LS			(180)
PAVEMENTS	LS			(800)
SITE IMPROVEMENTS/UNDERCUT/FILL	LS			(850)
WETLANDS REMEDIATION	LS			(600)
SUBTOTAL				21,663
CONTINGENCY (5.0%)				1,083
TOTAL CONTRACT COST				22,746
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,297
TOTAL REQUEST				24,043
TOTAL REQUEST (ROUNDED)				24,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(5,400.0)

10. Description of Proposed Construction: Concrete foundation and floor slab, steel frame, masonry walls and curved metal roof. Includes utilities, pavements, site improvements including undercut and fill, wetlands remediation, demolition of one masonry building (11,673 SM) and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facility Criteria.

Air Conditioning: 150 Tons

11. Requirement: 24279 SM Adequate: 3950 SM Substandard: 12543 SM

PROJECT: Construct a Base Logistics Facility. (Current Mission)

REQUIREMENT: Provide an adequate facility for storage of material, equipment, and mobility bags to support the 1st Special Operations Wing (SOW) and local associated organizations growth. Storage is also required for growth in critical aircraft systems' Mobility Readiness Spare Packages (MRSP) and spare parts.

CURRENT SITUATION: From FY06-13, Hurlburt Field manpower and aircraft will increase by 15% and 23% respectively. The existing supply warehouse is over 50 years old, has been added to twice, and is totally inadequate to support the constantly expanding mission of HQ AFSOC and the 1 SOW. The ceiling height of the existing facility does not permit double stacking of shipping containers and pallets and greatly reduces the effective use of automated material handling equipment. Hurlburt Field is the site of three new Consolidated Repair Facilities (CRFs) that perform depot maintenance on avionics, engines/propellers, and isochronal inspections on all AFSOC C-130 aircraft. CRFs will drive an additional

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD, FLORIDA	BASE LOGISTICS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	442-758	FTEV043016	24,000

30% increase in receipt, storage and delivery. This creates a severe shortage of space due to the requirement to receive, store, and deliver high value aircraft parts. Also, the long range plan includes expansion of the additional aircraft parking where Eason Hangar is located, and a replacement hangar would be constructed on the current site of the Base Logistics Facility. There are no other facilities on base that could be used or modified for this requirement.

IMPACT IF NOT PROVIDED: Without this project, repairing mission essential aircraft will continue to be delayed due to inefficient and inadequate parts storage and movement. Storage will be insufficient to meet CRF requirements. The existing 1957 facility will continue to deteriorate requiring increased maintenance funds. Productivity of personnel will be reduced, affecting support of the mission and degrading 1 SOW readiness. Aircraft parts and equipment valued at $15M will continue to be stored outdoors and subject to damage from Gulf Coast climatic conditions. Remote storage locations will require multiple handling and the inefficient use of forklifts, trucks and personnel.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable options to accomplish this project (status quo, renovation, upgrade/removal, new construction) was done. It indicates that there is only one option that will meet the operational requirement. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Base Civil Engineer: Maj Eric R Sosa, 850-884-7702. Base Logistics Facility: 14,405 SM = 155,000 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD, FLORIDA	BASE LOGISTICS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	442-758	FTEV043016	24,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	13-FEB-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-FEB-10
(e) Date Design Complete	30-SEP-10
(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	1,440
(b) All Other Design Costs	720
(c) Total	2,160
(d) Contract	1,800
(e) In-house	360

(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	13 MAR

* 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 WORKSTATION	3400	2012	200
COMMUNICATION EQUIPMENT	3400	2012	200
MOTORIZED MATERIAL HANDLING EQ	3400	2012	5,000

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
PATRICK AIR FORCE BASE	AIR FORCE SPACE	COST INDEX
FLORIDA	COMMAND	0.95

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 09	438	1753	2211	0	0	0	184	776	0	5,362
END FY 2015	438	1753	2211	0	0	0	184	776	0	5,362

7. INVENTORY DATA ($000)

Total Acreage:	2,341	
Inventory Total as of : (30 Sep 09)		344,987
Authorization Not Yet in Inventory:		20,654
Authorization Requested in this Program:		158,009
Planned in Next Four Years Program:		13,900
Remaining Deficiency:		268,350
Grand Total:		805,900

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
610-281	AF Technical Applications Center	48,074	SM	158,009	Design Build	
		Total		158,009		

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

730-839	Relocate Main Gate	245	SM	3,500
730-142	Fire/Crash Rescue Station	3,218	SM	10,400
				13,900

9c. Real Property Maintenance Backlog This Installation: ($M) 105.5

10. Mission or Major Functions: The 45th Space Wing provides mission-ready forces for the 14th Air Force and the U.S. Strategic command to safely execute and maintain spacelift operations and operate, maintain, and secure the Eastern Range. It supports ballistic missile test launches, aircraft tests, and other ballistic munitions evaluations. It also supports civil spacelift operations, commercial spacelift operations licensed by the Federal Aviation Administration, and other space launch activities in accordance with National Space Policy and with the provision of public law.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PATRICK AIR FORCE BASE, FLORIDA	AIR FORCE TECHNICAL APPLICATIONS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35999	610-281	SXHT053001	158,009

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				121,384
AIR FORCE TECHNICAL APPLICATIONS CENTER	SM	25,641	2,950	(75,641)
AIR FORCE LABORATORY	SM	3,530	5,400	(19,062)
SDD EP ACT 2005	LS			(2,348)
RF SHIELDING	LS			(6,928)
CENTRAL UTILITY PLANT	SM	2,175	2,390	(5,198)
PARKING GARAGE	SM	16,728	540	(9,033)
ANTITERRORISM FORCE PROTECTION	LS			(1,174)
INTERIOR COMMUNICATIONS	LS			(2,000)
SUPPORTING FACILITIES				16,045
UTILITIES	LS			(5,600)
PAVEMENTS	LS			(1,900)
SITE IMPROVEMENTS	LS			(1,100)
DEMOLITION	SM	19,789	260	(5,145)
RELOCATION OF TWO STORAGE MAGAZINES/PAD	LS			(1,100)
COMMUNICATIONS	LS			(1,200)
SUBTOTAL				137,429
CONTINGENCY (5.0%)				6,871
TOTAL CONTRACT COST				144,301
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				8,225
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				5,497
TOTAL REQUEST				158,023
TOTAL REQUEST (ROUNDED)				158,009)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(48,153

10. Description of Proposed Construction: Construct a multi-story facility with concrete pier foundation and reinforced concrete floor slab, concrete walls, structural steel frame and roof system, computer access flooring, fire protection, environmental controls, Sensitive Compartmented Information Facilities (SCIF), Intrusion Detection System (IDS), Air Force Laboratory adjacent to the primary facility, a contral utility plant, and a stand alone parking garage for 600 cars. Includes utilities, pavements, site improvements, a pedestrian bridge over South Patrick Drive, relocation of two existing storage magazines from the foot print of new constructionand site and all other supporting facilities. Demolish 19,789 SM of facilities. Complies with DoD force protection requirements per unified facilities criteria.

Air Conditioning: 800 Tons

11. Requirement: 48074 SM Adequate: 0 SM Substandard: 19789 SM

PROJECT: Construct an Air Force Technical Applications Center. (Current Mission)

REQUIREMENT: Adequate space for calibration/maintenance/storage functions for unique equipment needed to support critical mission operations. Additional space

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PATRICK AIR FORCE BASE, FLORIDA	4. PROJECT TITLE AIR FORCE TECHNICAL APPLICATIONS CENTER	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35999	610-281	SXHT053001	158,009

will provide administrative functions that will support the technical production, shipping, distribution of seismic equipment, and space for the directorates that implement the overall research and development operations.

CURRENT SITUATION: The existing facility was constructed in 1957 utilizing design standards far below current design requirements for protection against frequent and strong coastal hurricanes. The facility is less than 300 feet from the Atlantic Ocean. It is also located less than 85 feet from a primary north-south state highway resulting in serious force protection concerns. Brackish water was used for the masonry mortar resulting in compromised wall strength, and x-ray examination indicates steel wall reinforcing required by the minimal design is often absent altogether. Reconstruction to bring the facility up to minimal facility and anti-terrorism standards is cost prohibitive. AFTAC's role as the sole DoD agency operating and maintaining a global network of nuclear event detection sensors as well as its role on the leading edge of verification technology for future treaties involving nuclear weapons programs has led to significant recent mission growth and realignment which the existing facility cannot accommodate.

IMPACT IF NOT PROVIDED: Continued safety, health, and environmental problems plaguing this aging facility will cripple development of verification technology for future treaties involving nuclear weapons programs. The proximity to a major thoroughfare and waterway will continue to expose this critical facility with its cutting-edge technological laboratories and uniquely qualified personnel to risks from man-made and natural hazards. The inadequate facility risks serious impact to nuclear treaty monitoring operations and operations support. Major security risks will result from utilizing multiple alternate secure sites and transporting critical information and material between sites will incur significant administrative overhead.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status-quo, renovation, new construction) indicates that new construction is the most economical solution. Sustainable principles to include Life Cycle Cost-Effective practices will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. Base Civil Engineer: Lt. Col. Brian D. Weidmann, (321) 494-4041. AF Technical Application Center: 25,641 SM = 275,898 SF; AF laboratory: 3,530 SM = 37,982 SF; Central Utility Plant: 2,175 SM = 23,403 SF;; Parking Garage: 16,728 SM = 179,993 SF.

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

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PATRICK AIR FORCE BASE, FLORIDA	AIR FORCE TECHNICAL APPLICATIONS CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35999	610-281	SXHT053001	158,009

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 4,754

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 13 MAY

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	2012	14,627
COMMUNICATIONS EQUIPMENT	3080	2011	19,526
LABORATORY EQUIPMENT	3080	2011	9,000
COMMUNICATIONS EQUIPMENT	3080	2012	5,000

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
BARKSDALE AIR FORCE BASE LOUISIANA	AIR COMBAT COMMAND	COST INDEX 0.91

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	1116	6803	1363	49	6	1	3	6	9	9,356
END FY 2015	1097	6745	1324	49	6	1	3	6	9	9,240

7. INVENTORY DATA ($000)		
a. Total Acreage:	21,844	
b. Inventory Total as of : (30 Sep 09)		2,145,311
c. Authorization Not Yet in Inventory:		14,600
d. Authorization Requested in this Program:		18,140
e. Planned in Next Four Years Program:		17,800
f. Remaining Deficiency:		75,700
g. Grand Total:		2,271,551

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
171-875	Weapons Load Crew Training Facility	4725	SM	18,140	Design	Build
		Total		18,140		

9a. Future Projects: Typical Planned Next Four Years:

131-111	Consolidated Communication Facility	4321	SM	17,800
		Total		17,800

9b. Real Propery Maintenance Backlog This Installation: ($M)	113

10. Mission or Major Functions: Headquarters Eight Air Force; a bomb wing with three B-52 squadrons, one of which is responsible for training for all B-52 combat crews; an Air Force Reserve wing with A-10, AO-10, and B-52 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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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BARKSDALE AIR FORCE BASE, LOUISIANA	WEAPONS LOAD CREW TRAINING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	171-875	AWUB025502	18,140

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				11,209
WEAPONS LOAD CREW TRAINING FACILITY	SM	4,725	2,303	(10,882)
SDD & EPACT 05	LS			(218)
ANTITERRORISM/FORCE PROTECTION	LS			(109)
SUPPORTING FACILITIES				4,568
UTILITIES	LS			(1,055)
PAVEMENT	LS			(1,445)
SITE IMPROVEMENTS	LS			(610)
BUILDING DEMOLITION	SM	40	225	(9)
COMMUNICATION SUPPORT	LS			(24)
WASHRACK RELOCATION	LS			(1,037)
COMMISSIONING	LS			(94)
PAVEMENT DEMOLITION	SM	3,200	92	(294)
SUBTOTAL				15,777
CONTINGENCY (5.0%)				789
TOTAL CONTRACT COST				16,565
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				944
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				631
TOTAL REQUEST				18,141
TOTAL REQUEST (ROUNDED)				18,140)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(325

10. Description of Proposed Construction: Reinforced concrete foundation, steel columns and joists, insulated metal exterior and standing seam metal roof, metal stud/gypsum partitions, utilities, access road, parking with lighting, site improvements, landscaping, communications support, fire detection/protection, demolition of one facility (40 SM), and all other necessary support. Relocate washrack that is in the way of construction. Includes antiterrorism/force protection requirements identified in DoD unified facilities criteria.

Air Conditioning: 275 Tons

11. Requirement: 4725 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Weapons Load Crew Training Facility. (New Mission)

REQUIREMENT: Provide a dedicated indoor training facility to effectively train 2d Bomb Wing munitions load crews. The facility is needed to ensure load crews acquire task knowledge and physical proficiency necessary to perform their functions to meet real-world conventional and nuclear taskings. Facility must provide an environment conducive to keeping load crews certified on a vast array of munitions. A classroom, offices, and munitions storage space are required for training management.

CURRENT SITUATION: Non-availability of dedicated dock space forces all weapons load crew training to be performed on an open ramp exposed to the elements. Sudden and extreme changes in weather conditions often cancel training, making it

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		4. PROJECT TITLE WEAPONS LOAD CREW TRAINING FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 171-875	7. PROJECT NUMBER AWUB025502	8. PROJECT COST ($000) 18,140

difficult to maintain the required quantity of certified load crews. Therefore, the major impact of not having an indoor weapons load crew training facility is lost training days. Barksdale AFB loses approximately 20% of available training time each year due to weather. With only 15-18 average training days a month, and the 2-3 days a month required for each load crew, every lost training day is critical. The 2d Bomb Wing has one of the largest Unit Committed Munitions Listings in the Air Force, and it takes hours to reconfigure the aircraft to hold the variety of munitions that it is capable of employing. We cannot perform weapons load training in any of the existing facilities on Barksdale because they are all constantly in use facilitating other maintenance functions, or the floor plans are inadequate for safe and efficient storage and loading of munitions. The 2-Bay Maintenance Hangar (phase hangar) is used heavily to keep pace with the phase schedule; however, the floor plan does not permit driving munitions handling unit MHU-196 trailers far enough to clear the aircraft wings. The Fuel Cell Hangar has a dividing wall to isolate each bay and does not allow sufficient clearance around the aircraft for loading and has the same type of limitations as the 2-bay hangar. The Corrosion Control Facility work load and use as an alternate wash rack keeps the facility in constant use. The nose docks do not provide sufficient room to maneuver nor for the handling of larger weapons packages employed by the B-52.

IMPACT IF NOT PROVIDED: The 2d Bomb Wing will continue to lose valuable load crew training days due to inclement weather, drastically impacting the ability to maintain high standards of proficiency and the required quantity of certified weapons load crews to accomplish the mission. Increasing munitions taskings multiplies the impact. Training will have to continue during the weekends to make up the lost days due to weather. Load crews will continue to operate in the rain, cold, heat, darkness, noise and jet blast that contribute to the poor quality training environment.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". An 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; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Civil Engineer: LtCol David B. Chisenhall; Phone: (318) 456-4856; (Weapons Load Crew Training Facility: 4,725 SM = 50,841 SF)

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA	4. PROJECT TITLE WEAPONS LOAD CREW TRAINING FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	171-875	AWUB025502	18,140

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 544

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 SEP

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMM EQUIPMENT	3080	2011	225
FURNISHINGS	3400	2011	100

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
CREECH AIR FORCE BASE, NEVADA	AIR COMBAT COMMAND	1.36

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
AS OF 30 SEP 09	1053	6415	2709	75	135	2	0	1	263	10,653
END FY 2015	1103	6322	2696	75	135	2	0	1	263	10,597

7. INVENTORY DATA ($000)	
a. Total Acreage: 2,300	
b. Inventory Total as of : (30 Sep 09)	391,879
c. Authorization Not Yet in Inventory:	74,500
d. Authorization Requested in this Program:	11,710
e. Planned in Next Four Years Program:	0
f. Remaining Deficiency:	0
g. Grand Total:	478,089

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
730-142	UAS Airfield Fire/Crash Rescue Station	1,858	SM	11,710	DESIGN	BUILD
		Total		11,710		

9a. Future Projects: Typical Planned Next Four Years:

None

9b. Real Property Maintenance Backlog This Installation: ($M) 35

10. Mission or Major Functions: A fighter wing with three F-15 fighter squadrons; an airlift flight; an intelligence group; Aerospace Command and Control Intelligence, Surveillance and Reconnaissance Center (AC2ISRC), Detachment of the USAF Doctrine Center; and the Air Force Rescue Coordination 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	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CREECH AIR FORCE BASE, NEVADA	UAS AIRFIELD FIRE/CRASH RESCUE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
25219	730-142	LKTC113102	11,710

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				8,506
AIRFIELD FIRE/CRASH RESCUE STATION	SM	1,858	4,442	(8,253)
SDD & EPACT 05	SM	1,858	90	(167)
ANTITERRORISM/FORCE PROTECTION	SM	1,858	46	(85)
SUPPORTING FACILITIES				1,677
UTILITIES	LS			(380)
PAVEMENTS	LS			(437)
SITE IMPROVEMENTS	LS			(300)
COMMUNICATIONS SUPPORT	LS			(260)
CENTRAL ALARM CENTER	LS			(300)
SUBTOTAL				10,183
CONTINGENCY (5.0%)				509
TOTAL CONTRACT COST				10,692
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				609
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				407
TOTAL REQUEST				11,709
TOTAL REQUEST (ROUNDED)				11,710)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(550

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, masonry walls, standing seam metal roof, fire detection/protection, utilities, site improvements, landscaping, emergency response access pavements, roads and parking, communications support and all other necessary support. This project will comply with antiterrorism/force protection requirements identified in DoD Unified Facilities Criteria.

Air Conditioning: 90 Tons

11. Requirement: 2725 SM Adequate: 867 SM Substandard: 0 SM

PROJECT: UAS Airfield Fire/Crash Rescue Station. (New Mission)

REQUIREMENT: An additional fire/crash rescue station is required at Creech AFB with flightline access to meet both ARFF unannounced aircraft emergency response times to the approach end of Runway 13/31 and response time requirements to structural fires in the northeast section of the base where the majority of UAS MILCON and O&M facility construction has taken place in the FY04-FY09 timeframe. In order to support the rapid growth of UAS training and combat mission requirements at Creech AFB, the Fire Department is projected to grow from 35 funded personnel in FY08 to 56 funded personnel in FY10. The station must provide space for operating supplies and chemical agents, general living and messing areas, maintenance space and vehicle bays.

CURRENT SITUATION: Creech AFB has seen a significant increase in operational missions and personnel since 1994 when the base daytime population averaged approximately 300 personnel. The Creech UAS Predator initial beddown consisted of 10 RQ-1 and 120 personnel in the FY94-FY95 timeframe. Current and projected permanent/student manpower loading for Creech AFB is estimated between 2,000 and

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CREECH AIR FORCE BASE, NEVADA	UAS AIRFIELD FIRE/CRASH RESCUE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
25219	730-142	LKTC113102	11,710

3,000 personnel to support over 100 plus MQ-1 (Predator)/MQ-9(Reaper) aircraft, Flying Training Unit (FTU) operations, Security Forces training, guard and reserve and visiting units. The tow existing co-located fire department facilities (Bldgs 85 & 86, 867 SM), centrally located along Runway 08/26, will remain in service.

IMPACT IF NOT PROVIDED: Without adequate fire/crash and rescue protection for the rapidly growing UAS training and combat missions at Creech AFB, the possibility of loss of life and/or mission essential resources would continue to escalate. Any loss of UAS mission assets needed to perform critical AOR operations from home station via reach back capability would impact overall combat capabilities by reducing the number of UAS orbits available to support contingency operations. Air Force capability to train personnel for this critical mission would be severely impacted which in-turn would degrade the ability to support the warfighter in overseas contingency operations. In addition, combatant commanders' situational awareness would be degraded by not having the persistent 24/7 presence of the Predator and Reaper aircraft.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: LtCol Mark H. McCloud: (702) 652-4833. (Fire/Crash Rescue Station: 1,858 SM = 20,000 SF)

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CREECH AIR FORCE BASE, NEVADA	4. PROJECT TITLE UAS AIRFIELD FIRE/CRASH RESCUE STATION	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
25219	730-142	LKTC113102	11,710

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 351

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 SEP

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	300
FURNISHINGS	3400	2011	250

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
NELLIS AIR FORCE BASE, NEVADA	AIR COMBAT COMMAND	1.3

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	1053	6415	2709	75	135	2	0	1	263	10,653
END FY 2015	1103	6322	2696	75	135	2	0	1	263	10,597

7. INVENTORY DATA ($000)

a. Total Acreage: 13,921	
b. Inventory Total as of : (30 Sep 09)	2,109,983
c. Authorization Not Yet in Inventory:	71,100
d. Authorization Requested in this Program:	28,760
e. Planned in Next Four Years Program:	10,800
f. Remaining Deficiency:	178,000
g. Grand Total:	2,398,643

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-753	F-35 Add/Alter 422 TES Eval Squadron Fac	1,886	SM	7,870	Design-Build	
217-712	F-35 Add/Alter Flight Test Instrumentation	432	SM	1,900	Jun-09	Sep-10
171-212	F-35 Flight Simulator Facility	1,858	SM	13,110	Design Build	
211-111	F-35 Maintenance Hangar/AMU	6,318	SM	28,760	Jun-09	Sep-10
		Total		51,640		

9a. Future Projects: Typical Planned Next Four Years:

610-711	Communications Network Control Center	1,193	SM	10,800		
		Total		10,800		

9b. Real Property Maintenance Backlog This Installation: ($M)	103

10. Mission or Major Functions: USAF Warfare Center manages advanced pilot training, operation, testing, and tactics development in air, space, and cyberspace. Its 98th Range Wing oversees a 15,000 sq.-mile Nevada Test and Training Range Complex and two emergency airfields. 57th Wing, A-10A, F-15C/E, F-16, F-22A, HH-60G, MQ-1 Predator, MQ-9 Reaper. 57th Wing missions include Red Flag exercises (414th Combat Training Sq.); graduate level pilot training (USAF Weapons School); support for Army exercises (549th Combat Training Sq.); training for international personnel in joint firepower procedures and techniques (57th Operations Gp.); and USAF Air Demonstration Sq. (Thunderbirds). 53rd Wing, at 17 locations nationwide, serves as focal point for combat air forces in electronic warfare, armament and avionics, chemical defense, reconnaissance, and aircrew training devices, and operational testing and evaluation of proposed new equipment and systems. 505th Command and Control Wing builds the predominant air and space command and control ability for combined joint warfighters through training, testing, exercising, and experimentation.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE, NEVADA	F-35 ADD/ALTER 422 TEST EVALUATION SQUADRON FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	141-753	RKMF103002	7,870

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				5,933
F-35 TEST EVALUATION SQUADRON ADDITION	SM	1,486	3,668	(5,451)
F-35 TEST EVALUATION SQUADRON ALTERATION	SM	400	800	(320)
SDD & EPACT 05	LS			(108)
ANTITERRORISM/FORCE PROTECTION	LS			(54)
SUPPORTING FACILITIES				913
UTILITIES	LS			(100)
PAVEMENTS	LS			(120)
SITE IMPROVEMENTS	LS			(130)
COMMUNICATIONS SUPPORT	LS			(100)
SCIF	LS			(463)
SUBTOTAL				6,846
CONTINGENCY (5.0%)				342
TOTAL CONTRACT COST				7,188
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				410
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				274
TOTAL REQUEST				7,871
TOTAL REQUEST (ROUNDED)				7,870)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(220

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, standing seam metal roof, fire detection/protection, special security enhancements, utilities, site improvements, landscaping, roads/parking, fire protection system, communications support, electrical infrastructure upgrade and all other necessary work as required. Construction included a secure compartmented information facility (SCIF). Alteration work includes all work associated with connecting the new addition to the existing facility. This project will comply with antiterrorism/force protection requirements identified in DoD unified facilities criteria.

Air Conditioning: 90 Tons

11. Requirement: 10370 SM Adequate: 8484 SM Substandard: 0 SM

PROJECT: F-35 Add/Alter 422nd Test Evaluation Squadron Facility. (New Mission)

REQUIREMENT: An F-35 Operational Test Evaluation Facility, adequately sized and configured with appropriate security, is required to support the permanent beddown of 36 F-35A Primary Development/Test Aircraft and approximately 215 personnel beginning in FY12/2. Nellis AFB has been designated as the beddown location for Force Development and Evaluation and the USAF Weapon School for the new F-35A Weapon System. Operational testing of the F-35A is a critical Combat Air Forces (CAF) requirement that supports fielding and combat employment of all F-35A squadrons around the world. These tests are instrumental for the development of the weapons employment tactics for the CAF. In addition, the initial operators and maintainers train the follow-on forces/personnel associated with the F-35A. Successful training of initial cadre is critical for the long term health of the

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA	4. PROJECT TITLE F-35 ADD/ALTER 422 TEST EVALUATION SQUADRON FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	141-753	RKMF103002	7,870

fleet and personnel. Facility completion is required 6 to 9 months prior to first aircraft delivery in FY11. Additional time is required to support the facility security accreditation process, installation of training devices, maintenance computer tracking/maintenance systems, communication instruments/systems, telephones, furniture and other work necessary for a complete and usable facility for the intended purpose.

CURRENT SITUATION: Nellis AFB does not have a test evaluation facility capacity to support 36 additional aircraft and 215 additional personnel. Nellis supports the operational test and evaluation and the Weapons School requirements of over 15 diversified weapon systems and/or mission design series. In addition to the growing aircraft test assets, Nellis has also grown significantly in the other airframes and is adding F-16 and F-15 Aggressor Squadrons. To handle the increased workload, the base has had to break several operational and maintenance organizations into separate organizations and added personnel to support all operations and maintenance functions at Nellis and Creech AFB.

IMPACT IF NOT PROVIDED: Nellis AFB's ability to perform operational test and evaluation for the employment of various weapons and tactics for the CAF, including the F-35A, will be impaired. Without this facility addition, initial and final operational capability may be significantly delayed, degrading the Air Force's overall combat capability. The first beddown locations for new weapon systems provide the initial pool of qualified operators and maintainers who will in turn train the next group of personnel for follow on locations. If the AF is unable to properly test and evaluate weapons systems on F-35A aircraft in the early stages of this aircraft's development, the negative impacts will be felt at follow on locations.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. Add/alter was found to be the most cost efficient over the life of the project. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Mark H. McCloud: (702) 652-4833. (F-35 Test Evaluation Squatreon Addition: 1,486 SM = 15,989 SF; F-35 Test Evaluation Squadron Alteration: 400 SM = 4,304 SF)

BASE CIVIL ENGINEER: Faron

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components. This project supports Total Force Integration initiatives.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE, NEVADA	F-35 ADD/ALTER 422 TEST EVALUATION SQUADRON FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	141-753	RKMF103002	7,870

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 236

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 MAR

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	150
FURNISHINGS	3400	2011	70

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE, NEVADA	F-35 ADD/ALTER FLIGHT TEST INSTRUMENTATION FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	217-712	RKMF103008	1,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				1,453
ADD TO FLIGHT TEST INSTRUMENTATION FACILITY	SM	372	3,407	(1,267)
ALTER FLIGHT TEST INSTRUMENTATION FACILITY	SM	60	2,400	(144)
SDD & EPACT 05	LS			(28)
ANTITERRORISM/FORCE PROTECTION	LS			(14)
SUPPORTING FACILITIES				256
UTILITIES	LS			(16)
SITE IMPROVEMENTS	LS			(115)
PAVEMENTS	LS			(95)
COMMUNICATIONS SUPPORT	LS			(30)
SUBTOTAL				1,709
CONTINGENCY (5.0%)				85
TOTAL CONTRACT COST				1,795
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				102
TOTAL REQUEST				1,897
TOTAL REQUEST (ROUNDED)				1,900
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(20.0)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, masonry walls, standing seam metal roof, fire detection/protection, utilities, site improvements, landscaping, parking/roads, communications support, and all other necessary work as required. Alteration work includes all work associated with connecting the addition to the existing facility. This project will comply with antiterrorism/force protection requirements identified in DoD unified facilities criteria.

Air Conditioning: 20 Tons

11. Requirement: 1646 SM Adequate: 1214 SM Substandard: 60 SM

PROJECT: F-35 Add/Alter Flight Test Instrumentation Facility. (New Mission)

REQUIREMENT: Nellis AFB is designated as the beddown location for Force Development and Evaluation and the USAF Weapon School for the F-35A weapon system. Additional flight test instrumentation space is required to support the permanent beddown of 12 F-35A Primary Development/Test Aircraft and 24 Primary Training Aircraft beginning FY12/2. The facility addition must provide space for a support section, instrument parts storage, a work area/clean room for instrument electrical work, indoor storage for instrumentation support equipment, office space, indoor pod storage, a classified server room, change areas, locker space and a latrine area with showers.

CURRENT SITUATION: Nellis AFB does not have adequate flight test instrumentation capacity to accommodate an additional 36 F-35A aircraft for Force Development and Evaluation, Weapons School and associated maintenance and training functions. Nellis is one of the most congested airfields in the Air Force from an operational and logistics perspective. Nellis AFB proper has had significant growth since 2000 with the F-22A Test and Weapons School Beddown (13 aircraft), the new F-15/F-16

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE, NEVADA	F-35 ADD/ALTER FLIGHT TEST INSTRUMENTATION FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	217-712	RKMF103008	1,900

Aggressor Beddown (48 aircraft), and the expansion of Flag exercises and other force structure actions. Nellis is projected to have over 180 assigned aircraft when all actions are complete. All excess flight line facilities have been at capacity for the last 5 to 7 years, and additional requirements have been documented through the BRAC 2005 process and previously approved new weapon system facility projects. The installation is a critical asset for the capabilities and tactics testing of new weapon systems and the training of combat forces. The installation supports a diversity of weapons systems ranging from HH-60s, A-10s, F-15s, F-16s, F-22A and now F-35A, all of which support Operational Test, Tactics, Techniques and Procedures development, USAF Weapons School and Flag exercises.

IMPACT IF NOT PROVIDED: The ability to generate aircraft sorties to support operational test and weapons school mission requirements will be severely impacted. Without adequate flight test instrumentation facility capacity, personnel will be unable to provide operational test and evaluation, tactics development and support of this new weapon system, impacting fleet health and operational capability for the war fighter. If Nellis AFB is unable to provide instrumentation support during the initial and follow on phases of testing, the F-35A will not be able to support real-world, critical combat capability.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide" and Air Force Handbook 32-1084, "Facility Requirements". An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. Add/alter was found to the most cost efficient over the life of the project. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the project design, development and construction in accordance with Executive Order 13423, 10 USC 2808 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Mark H. McCloun: 702-652-4833 (F-35 Flight Test Instrumentation Facility Addition: 372 SM = 4,003 SF; Flight Test Instrumentation Facility Alteration: 60 SM = 646 SF)
Base Civil Engineer: Lt Col Mark H. McCloud: (702) 652-4833

BASE CIVIL ENGINEER: Faron

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

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE, NEVADA	F-35 ADD/ALTER FLIGHT TEST INSTRUMENTATION FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	217-712	RKMF103008	1,900

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	114
(b) All Other Design Costs	57
(c) Total	171
(d) Contract	143
(e) In-house	29
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 MAR

* 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	3080	2011	5
FURNITURE, FURNISHINGS & EQUIP	3400	2011	15

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE, NEVADA	F-35 FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	RKMF103007	13,110

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				8,410
F-35 FLIGHT SIMULATOR FACILITY	SM	1,858	4,394	(8,164)
SDD & EPACT 05	LS			(164)
ANTITERRORISM/FORCE PROTECTION	LS			(82)
SUPPORTING FACILITIES				2,993
UTILITIES	LS			(810)
PAVEMENTS	LS			(513)
SITE IMPROVEMENTS	LS			(460)
COMMUNICATIONS SUPPORT	LS			(720)
EXPANSIVE SOIL	LS			(490)
SUBTOTAL				11,403
CONTINGENCY (5.0%)				570
TOTAL CONTRACT COST				11,973
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				682
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				456
TOTAL REQUEST				13,112
TOTAL REQUEST (ROUNDED)				13,110)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(80,650

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, masonry walls, standing seam metal roof, fire detection/protection, special security enhancements, specialized heating and air conditioning with temperature and humidity limitations, utilities, site improvements, landscaping, vehicle pavements, communications support and all other necessary work as required. This project will comply with antiterrorism/force protection requirements identified in DoD Unified Facilities Criteria.

Air Conditioning: 90 Tons

11. Requirement: 3344 SM Adequate: 1486 SM Substandard: 0 SM

PROJECT: F-35 Flight Simulator Facility. (New Mission)

REQUIREMENT: Nellis AFB is the designated beddown location for Force Development and Evaluation and the USAF Weapons School for the F-35A Weapon System. An adequately sized and configured flight simulator facility is required to support F-35A operational test and evaluation, tactics development and the USAF F-35A Weapons School missions scheduled for FY12/2. This facility must provide space for four simulator bays, an auditorium, classrooms, brief/debrief rooms, a classified server room, locker and restroom space, offices and storage space for F-35A pilot flight simulator training.

CURRENT SITUATION: Nellis AFB does not have facility space to support flight simulator training of pilots accompanying the arrival of 36 F-35A aircraft. All facilities that currently accommodate flight simulators are at capacity supporting existing and projected aircraft. Nellis AFB has one of the most congested airfields in the Air Force from an operational and logistics perspective. Base proper has had significant growth since 2000 with the F-22A Test and Weapons School

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		4. PROJECT TITLE F-35 FLIGHT SIMULATOR FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 171-212	7. PROJECT NUMBER RKMF103007	8. PROJECT COST ($000) 13,110

Beddown (13 aircraft), the new F-15/F-16 Aggressor Beddown (48 aircraft), and the expansion of Flag exercises and other force structure actions. Nellis is projected to have over 180 assigned aircraft when all actions are complete.

IMPACT IF NOT PROVIDED: F-35A pilots will be unable to provide adequate support to operational test and evaluation and tactics development without first obtaining/maintaining proficiency through flight simulator training. This will in-turn impact the operational capability for the war fighter. Additionally, the first beddown locations for new weapon systems provide the initial pool of qualified pilots who in turn train the next group of pilots for follow-on locations. If the AF is unable to train adequate numbers of pilots in early aircraft development, the impacts will be felt at follow-on locations and may impact/delay initial and/or final operational capability. This project provides critical "real-world" mission rehearsal and training for F-35A pilots, who in future assignments will guide others in how to operate this 5th generation fighter aircraft.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements," and the F-35A Facility Requirements Plan. An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Mark H. McCloud: (702) 652-4833. (Flight Simulator: 1,858 SM = 20,000 SF)

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA	4. PROJECT TITLE F-35 FLIGHT SIMULATOR FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	RKMF103007	13,110

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 393

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 DEC

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	500
FURNISHINGS	3400	2011	150
FLIGHT SIMULATOR (4)	3080	2011	80,000

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE, NEVADA	F-35 MAINTENANCE HANGAR/AMU

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	211-111	RKMF093004	28,760

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				20,724
MAINTENANCE HANGAR (F-35A)	SM	3,902	3,649	(14,238)
AIRCRAFT MAINTENANCE UNIT (F-35A)	SM	1,208	2,435	(2,941)
AIRCRAFT MAINTENANCE UNIT (A-10)	SM	1,208	2,435	(2,941)
SDD & EPACT 05	LS			(402)
ANTITERRORISM/FORCE PROTECTION	LS			(201)
SUPPORTING FACILITIES				5,187
UTILITIES	LS			(450)
SITE IMPROVEMENTS	LS			(400)
HANGAR APRON ACCESS PAVEMENTS	LS			(605)
COMMUNICATIONS SUPPORT	LS			(550)
HIGH EXPANSION FIRE PROTECTION SYSTEM	LS			(1,350)
DEMOLITION	SM	2,218	425	(943)
TEMPORARY FACILITIES	LS			(889)
SUBTOTAL				25,911
CONTINGENCY (5.0%)				1,296
TOTAL CONTRACT COST				27,207
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,551
TOTAL REQUEST				28,757
TOTAL REQUEST (ROUNDED)				28,760
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(70.0)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, standing seam metal roof, fire detection/protection, utilities, landscaping, roads/parking, hangar apron, access roads and parking pavements, lighting and markings, high expansion fire protection system, communications support, demolition of two facilities (2,218 SM), temporary facilities during construction and all other necessary support. This project will comply with antiterrorism/force protection requirements identified in DoD unified facilities criteria.

Air Conditioning: 50 Tons

11. Requirement: 34314 SM Adequate: 27996 SM Substandard: 0 SM

PROJECT: F-35 Maintenance Hangar/AMU. (New Mission)

REQUIREMENT: Nellis AFB is the designated beddown location for Force Development and Evaluation, and the USAF Weapon School for the F-35A weapon system. A 6-bay maintenance hangar with an attached Aircraft Maintenance Unit, adequately sized and configured, is required to support the permanent beddown of 12 F-35A Primary Development/Test Aircraft and 24 Primary Training Aircraft beginning FY12/2. The F-35A Hangar/AMU is required to support flightline maintenance for both test and weapon school aircraft and fall under the 57th Maintenance Group. The F-35A is designed with state of the art technology and composite materials to meet stealth mission requirements. Dedicated maintenance facilities are required to maintain these unique, one of a kind systems. Because the Nellis flightline and ramp is at

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA	4. PROJECT TITLE F-35 MAINTENANCE HANGAR/AMU	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	211-111	RKMF093004	28,760

capacity this new facility must be sited over the existing A-10 AMU and the Armament/AME Storage Facility, forcing their relocation .

CURRENT SITUATION: Nellis AFB does not have flightline facilities to support an additional 36 F-35A aircraft for test, Weapons School and associated maintenance functions. Nellis AFB proper has had significant growth since 2000 with the F-22A Test and Weapon School Beddown (16 aircraft), the F-15/F-16 Aggressor Beddown (48 aircraft) and the expansion of Flag exercises and other force structure actions. Nellis is projected to have over 180 assigned aircraft when all actions are complete. All excess flightline facilities have been at capacity for the last 5 to 7 years, and additional requirements have been documented through the BRAC 2005 process and previously approved new weapon system facility projects. Due to lack of developable space on the main flightline, this facility is sited on the A-10 Thunder AMU and the Armament/AME Storage Facility that require relocation/replacement facilities. The installation is a critical asset for capabilities and tactics testing of new weapon systems and the training of combat forces. The installation supports a diversity of weapons systems ranging from HH-60s, A-10s, F-15s, F-16s, F-22A, and now F-35A, all of which support operational test, weapon school and flag exercises.

IMPACT IF NOT PROVIDED: The ability to generate the necessary aircraft sorties to support operational test and weapons school mission requirements will be severely impacted. Without facilities, maintenance personnel will be unable to support the maintenance of this new weapon system, impacting fleet health. Additionally, the first beddown locations for new weapon systems of all kinds provide the initial pool of qualified operators and maintainers who will in turn train the next group of personnel for follow on locations. If the AF is unable to train adequate numbers of personnel in the early stages of development, the impacts will be felt at follow-on locations and may impact or delay initial and/or final operational capability. This project provides critical "real world" training for F-35A maintenance crews, who in future assignments will guide others in learning how to maintain the F-35A.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide", Air Force Handbook 32-1084, "Facility Requirements" and the weapon system Facility Requirement Plan. An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. (Hangar: 3,902 SM = 41,986 SF; F-35A AMU: 1,208 SM = 12,998 SF; A-10 AMU: 1,208 SM = 12,998 SF) Civil Engineer: Lt Col Mark H. McCloud: (702) 652-4833

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

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE, NEVADA	F-35 MAINTENANCE HANGAR/AMU

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	211-111	RKMF093004	28,760

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JUN-08
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	30-SEP-08
(e) Date Design Complete	30-SEP-09
(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	1,726
(b) All Other Design Costs	863
(c) Total	2,588
(d) Contract	1,926
(e) In-house	663
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	13 MAR

* 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	3080	2011	45
FURNISHINGS	3400	2011	25

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
MCGUIRE AIR FORCE BASE NEW JERSEY	AIR MOBILITY COMMAND	1.18

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	526	3614	727	450	2909	0	660	3157	296	12,339
END FY 2015	508	3497	726	439	2819	0	660	3161	296	12,106

7. INVENTORY DATA ($000)

a. Total Acreage:	3,660
b. Inventory Total as of : (30 Sep 09)	2,746,953
c. Authorization Not Yet in Inventory:	15,300
d. Authorization Requested in this Program:	26,440
e. Planned in Next Four Years Program:	16,956
f. Remaining Deficiency:	160,543
g. Grand Total:	2,966,192

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-453	Base Ops/Command Post Facility (TFI)	2,200	SM	8,000	May 09	Sep 10
721-312	Dormitory (120 Room)	120	RM	18,440	Design Build	
			Total	26,440		

9a. Future Projects: Typical Planned Next Four Years:

812-225	Electrical Distribution System, Phase 2	1,000	LM	8,000
422-264	Munitions Storage Area	1,810	SM	8,956
			Total	16,956

9b. Real Property Maintenance Backlog This Installation ($M): 125

10. Mission or Major Functions: Team McGuire consists of the Air Mobility Warfare Center, 21st Expeditionary Mobility Task Force, 305th Air Mobility Wing, 514th Air Mobility Wing (Air Force Reserve Command), 108th Air Refueling Wing (New Jersey Air National Guard)

11. Outstanding pollution and Safety (OSHA) Deficiencies:

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

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	BASE OPS/COMMAND POST FACILITY (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	141-453	PTFL063000	8,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				5,634
BASE OPERATIONS / COMMAND POST FACILITY	SM	2,200	2,485	(5,467)
SDD & EP ACT 05	LS			(111)
ANTITERRORISM/FORCE PROTECTION	LS			(56)
SUPPORTING FACILITIES				1,586
UTILITIES	LS			(269)
PAVEMENTS	LS			(575)
SITE IMPROVEMENTS	LS			(168)
SITE/UTILITY DEMOLITION	LS			(150)
COMMUNICATIONS SUPPORT	LS			(424)
SUBTOTAL				7,220
CONTINGENCY (5.0%)				361
TOTAL CONTRACT COST				7,581
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				432
TOTAL REQUEST				8,013
TOTAL REQUEST (ROUNDED)				8,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,022.0)

10. Description of Proposed Construction: Concrete slab on grade, concrete masonry unit (CMU) exterior walls with brick veneer and cast stone accents, standing seam metal roof, bronze anodized energy efficient windows and exterior doors, provide hardened interior walls and ceiling over new Command Post area, communications, all buildings systems, pre-wiring, all required areas for all Operations Group (OG) Base Operations functions, landscaping, and parking lots. Demolish existing utility systems, relocate existing communications lines and provide necessary communications support. Includes antiterrorism/force protection requirements IAW the DoD Unified Facilities Criteria.

Air Conditioning: 55 Tons

11. Requirement: 3913 SM Adequate: 1713 SM Substandard: 0 SM

PROJECT: Construct Base Operations/Command Post Facility. (Current Mission)

REQUIREMENT: The 305th Operations Group (OG) and 305th Air Mobility Wing (AMW) require a modern, efficient consolidated Base Operations/Command Post (CP) facility. Base Operations space is required to accommodate the administrative needs of 305th Operations Support Squadron (OSS), and to provide space for aircrew brief/debrief, flight ops scheduling, intelligence (Intel), Intel equipment support areas, Command and Control (C2), standardization/evaluation, and support staff areas. Properly sized Command Post space is required to provide sufficient space for controllers, classified operations, classified storage, Mission Operations Control (MOC) & Air Tactical Operations Center (ATOC) units, Emergency Action controllers, STRATCOM Support Mission personnel, SORTS and all associated equipment as McGuire prepares for additional BRAC missions and integration with the Navy and Army under joint basing. It also includes space to house the crisis action team (CAT) adjacent to the CP. The Chief of Staff of the Air Force mandated that Air Force Command Posts consolidate all resident and tenant CPs into one Installation

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	BASE OPS/COMMAND POST FACILITY (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	141-453	PTFL063000	8,000

Control Center (ICC) no later than 31 December 2007. To comply with the USAF Installation Control Center (ICC) concept McGuire must train and integrate with 514 Air Mobility Wing (AMW) controllers and eventually with the 108 Air Refueling Wing (ARW) CP.

CURRENT SITUATION: In July 07, McGuire became the first KC-10 base certified/responsible for time critical refueling support of the STRATCOM national strategic mission. CP workload to immediately secure/process classified Emergency Action Messages (EAMs) increased from 2 to 38 (avg) EAMs per day. The CP cell area is too small, cannot be expanded, & lacks basic physical security elements to allow Secret communications processing without disruption to controllers. Key OSS flights such as Intel & Tactics are located in separate facilities, hindering effective C2 within the OSS and preventing efficient mission planning. Mission planning areas accommodate only two flight crews at a time; many global airlift sorties emanating from McGuire in support of USTRANSCOM's war-fighting mission involve more than two flight crews. The lack of adequate mission planning space increases time in communicating vital pre-flight information to flight crews & the risk of miscommunication. Critical functions (CAT & Intel), located below grade, have been flooded numerous times risking damage to real property & sensitive, classified & unclassified computer equipment. The CAT area does not accommodate the entire CAT staff at one time & lacks basic communications equipment to enable real time audio/video inputs from other base agencies. Due to a permanent corporate military airlift channel restructuring (1 Jan 08) McGuire now provides C2, aircrew, and logistics & maintenance support to recover/launch all military & commercial airlift to EUCOM, Afghanistan & locations in CENTCOM. Building systems (electrical, HVAC) don't meet demand. The facility violates ATFP setbacks.

IMPACT IF NOT PROVIDED: Base operations and command post functions will continue to operate inefficiently. Geographically separated OSS flights prevent effective command and control and degrade pre-flight planning. The lack of adequate mission planning areas impedes communication among flight crews as they prepare to fly sorties in support of COCOM war-fighter missions. Integration of Navy aircraft under joint basing places an additional premium on having adequate space for mission planning and communication. CAT and Intel functions are routinely disrupted and forced to relocate to substandard alternate locations due to flooding, and the flooding also places critical classified communications infrastructure at risk. The CAT lacks the most essential command and control capabilities because existing area cannot accommodate the entire CAT staff at one time. During exercise or real world scenarios, the degraded command and control capability due to inadequate space combined with antiquated communications infrastructure will severely hamper the CAT's ability to respond to major events. Continued non-compliance with AT/FP and COMSEC construction criteria for this critical facility creates unacceptable security vulnerabilities.

ADDITIONAL: This project complies with the criteria/scope as specified in AFH 32-1084, "Facility Requirements". An Economic Analysis has been prepared which compared alternatives to new construction, including revitalization, leasing, and status quo. It indicated that new construction is the most cost effective solution. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC (c), and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Craig Cole, (609) 724-2642. Base Ops/Command Post Facility: 2,200 SM = 23,672 SF.

JOINT USE CERTIFICATION: This facility is programmed for joint use with the 514th AMW (AFRC), Fort Dix (US Army) and Lakehurst NAEC (US Navy); however, it is fully funded by the Air Force. This project supports Total Force Integration initiatives.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	BASE OPS/COMMAND POST FACILITY (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	141-453	PTFL063000	8,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	14-MAY-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	29-JAN-10
(e) Date Design Complete	30-SEP-10
(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	480
(b) All Other Design Costs	240
(c) Total	720
(d) Contract	600
(e) In-house	120

(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 AUG

* 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)
FURNITURE AND OTHER FURNISHING	3400	2011	450
COMMUNICATIONS EQUIPMENT	3080	2011	500
UPS SYSTEM	3080	2011	35
AUDITORIUM SEATING	3400	2011	37

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	DORMITORY (120 ROOM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	721-312	PTFL083003	18,440

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				13,348
DORMITORY (120 RM)	SM	3,960	3,248	(12,862)
ANTITERRORISM/FORCE PROTECTION	LS			(129)
INTERIOR COMMUNICATIONS SUPPORT	SM	3,960	25	(99)
SDD & EP ACT 05	LS			(258)
SUPPORTING FACILITIES				2,692
PAVEMENT	LS			(465)
SITE IMPROVEMENTS	LS			(300)
UTILITIES	LS			(400)
EXTERIOR COMMUNICATIONS SUPPORT	LS			(200)
PAVEMENT DEMOLITION	LS			(326)
BUILDING DEMOLITION	SM	5,006	200	(1,001)
SUBTOTAL				16,040
CONTINGENCY (5.0%)				802
TOTAL CONTRACT COST				16,842
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				960
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				642
TOTAL REQUEST				18,444
TOTAL REQUEST (ROUNDED)				18,440)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(900

10. Description of Proposed Construction: Construct a three story dormitory configured to the Air Force E1-E4 Dorms-4-Airmen module standard with balcony entrances. Exterior construction will include concrete foundation and slab-on-grade, load bearing steel framed walls with brick veneer finish and cast stone accents, concrete elevated floor slabs, and metal joist hip roof structure with standing seam metal roofing system. Exterior closure will include operable metal frame windows with Low E double pane glazing and entry doors with thermal insulation and automatic door closers. Building systems include: HVAC, plumbing, electrical and lighting, communication, security, and fire protection and detection. This project replaces two dormitories that will be demolished (5,006 SM). This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 96 Tons Grade Mix: E1-E4 120

11. Requirement: 658 RM Adequate: 375 RM Substandard: 324 RM

PROJECT: Construct a 120 room dormitory. (Current Mission)

REQUIREMENT: An important Air Force initiative is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform. Dormitory investment is a key quality of life issue to help boost retention rates of our highly trained Airmen. Continuing to take care of people is an ongoing CSAF interest item because

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCGUIRE AIR FORCE BASE, NEW JERSEY	DORMITORY (120 ROOM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	721-312	PTFL083003	18,440

Airmen are our #1 resource and retaining a trained force is essential to our readiness posture and continuing world-wide responsibilities. Current requirement for unaccompanied housing occupants is 658 E1-E4 enlisted personnel.

CURRENT SITUATION: The base has a requirement for 658 dormitory rooms and a current adequate inventory of 376 rooms. Five of the existing eight dorms were constructed in the 1950's and require significant renovation. Based on force protection criteria, including progressive collapse, blast protection and standoff distances, renovation costs are significantly impacted and will exceed 70% of the replacement threshold. Therefore, the 2008 Air Force Dorm Master Plan recommended new construction as the most cost effective and feasible solution. The plan is to replace these 1950s vintage dorms with new 120 person dorms in a three phase plan.

IMPACT IF NOT PROVIDED: In order to mitigate the worst AT/FP deficiencies a minimum of 132 airmen, and as many as 263 airmen, will be forced to live off-base. Transportation to and from base can be a problem because many young Airmen do not own vehicles. Additionally, being forced to live off base decreases access to many of their benefits and services including Education Center, Chapel, Fitness Center, and Community Center. These Airmen will incur additional out-of-pocket cost of living expenses and will be detached from their on-base peers. Continued use of the existing dormitories will result in unnecessary exposure to major Force Protection deficiencies including the lack of progressive collapse and blast/fragmentation mitigation.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements and is in accordance with the 2008 Air Force Dormitory Master Plan. An analysis was conducted comparing alternatives of status quo, renovation, and new construction. It indicates that new construction is the only option that will meet operational requirements. A certificate of exception is prepared. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC (c), and other applicable laws and Executive Orders. FY2009 unaccompanied housing RPM conducted: None. FY2010 unaccompanied housing RPM conducted: None. Future unaccompaned housing RPM planned: None. Base Civil Engineer: Lt Col Craig Cole, (609) 724-2642. Dormitory (120 Room): 3,960 SM = 42,625 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY	4. PROJECT TITLE DORMITORY (120 ROOM)	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	721-312	PTFL083003	18,440

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 553

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 13 MAR

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
EXCLUDED COMMUNICATIONS EQUIP	3400	2012	100
FURNITURE	3400	2012	800

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE JUL 2009
INSTALLATION AND LOCATION CANNON AFB, NEW MEXICO	COMMAND: AIR FORCE SPECIAL OPERATIONS COMMAND	5. AREA CONST COST INDEX 1.04

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 09	233	1500	398	0	0	0	0	0	0	2,131
END FY 2015	549	2561	416	0	0	0	0	0	0	3,526

7. INVENTORY DATA ($000)

a. Total Acreage:	3,789	
b. Inventory Total as of : (30 Sep 09)		1,002,731
c. Authorization Not Yet in Inventory:		40,600
d. Authorization Requested in this Program:		34,000
e. Planned in Next Four Year Program:		20,500
f. Remaining Deficiency:		217,997
g. Grand Total:		1,315,828

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
721-312	DORMITORY (96-ROOM)	3,168	SM	$14,000	Design	Build
141-753	UAS Squadron Operations Faciity	96	RM	$20,000	Jan-10	Aug-10
		Total		$34,000		

9a. FUTURE PROJECTS: Typical Planned Next Four Years:

722-351	SATELLITE DINING & FITNESS CTR	1,378	SM	5,000
740-253	FAMILY SUPPORT CENTER	1,001	SM	3,200
730-441	LIBRARY/EDUCATION CENTER	3,344	SM	12,300
				20,500

9b. Real Propery Maintenance Backlog This Installation: ($M) N/A

10. MISSION OR MAJOR FUNCTIONS: Special Operations Wing with MC-130W, AC-130, CV-22, Non-Standard Aviation (NSA), and Unmanned Aerial System (UAS) special operations 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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE, NEW MEXICO	DORMITORY (96 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	CZQZ073005	14,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				10,018
DORMITORY (96 RM)	SM	3,168	3,070	(9,726)
ANTITERRORISM/FORCE PROTECTION	LS			(97)
SDD & EPA ACT 05	LS			(195)
SUPPORTING FACILITIES				2,191
UTILITIES	LS			(505)
SITE IMPROVEMENTS	LS			(622)
PAVEMENTS	LS			(504)
COMMUNICATIONS	LS			(560)
SUBTOTAL				12,209
CONTINGENCY (5.0%)				610
TOTAL CONTRACT COST				12,819
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				731
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				488
TOTAL REQUEST				14,038
TOTAL REQUEST (ROUNDED)				14,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(774

10. Description of Proposed Construction: Construct a three-story, four-plex style dormitory (96 room) with reinforced concrete foundation, walls and floors, on a steel frame. The exterior finish will be split faced concrete masonry unit (CMU) block and metal roof. The project includes all utilities, pavements, site improvements, landscaping and all required facility support. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facility Criteria.

Air Conditioning: 150 Tons Grade Mix: E1-E4 96

11. Requirement: 814 RM Adequate: 236 RM Substandard: 324 RM

PROJECT: Construct a 96 room dormitory. (New Mission)

REQUIREMENT: Meet new requirements for beddown of Special Operations Forces (SOF). By FY11, multiple new missions will be assigned to Cannon to include one MC-130 Squadron, one AC-130 Squadron, an Unmanned Aircraft System (UAS) Squadron, two CV-22 Squadrons, a Non-Standard Aircraft (NSA) Squadron and various other SOF personnel. Cannon AFB unaccompanied enlisted personnel (UEP) housing requirement will be 814 dorm rooms in the current AF standard (4 Room Quad) by FY12.

CURRENT SITUATION: Projected requirements due to the AFSOC beddown will result in a deficit of 107 dormitory rooms. Additionally, most of the existing dorms are substandard. Two dormitories are uninhabitable due to mold, asbestos, and severe infrastructure deficiencies. Other dormitories are 40 - 50 years old. The older dorms have had multiple cosmetic upgrades, but the mechanical systems have not been improved. In the older dorms, plumbing has diminished water flow capacity due to hard water deposits in the piping resulting in low pressure/low volume water in showers and sinks. Mechanical and electrical systems are beyond their Life Cycle with multiple recommendations to replace or upgrade existing systems within the Dormitory Master Plan. The older fire alarm systems trigger false alarms, wasting

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE, NEW MEXICO	DORMITORY (96 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	CZQZ073005	14,000

time and resources as well as being a nuisance to airmen.

IMPACT IF NOT PROVIDED: The dorm room deficit will force either increased occupancy of existing dorms or force single airmen to live in off-base housing. Much of off-base housing is substandard and unaffordable on current Basic Allowance for Housing rates and/or located in less than secure areas of the local community. There is no local mass transit system, which would force new airmen living off base to purchase vehicles which may create a financial hardship. These conditions will reduce the quality of life for these airmen and potentially affect retention. Without recapitalization of existing dormitories, they will continue to degrade, reaching uninhabitable condition; further increasing the dormitory room shortage.

ADDITIONAL: This project meets the criteria/scope in the AF Handbook 32-1084, Facility Requirements, the Dormitory Design Guide, the AF Dorm Master Plan and the Cannon AFB General Plan. 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, a full economic analysis was not performed. A certificate of exception has been prepared. FY 2009 unaccompanied housing RPM conducted: None. FY 2010 unaccompanied housing RPM conducted: None. Future unaccompanied housing RPM planned: None. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Anne M Coverston; Phone: (575) 784-2008. Dormitory: 3,168 SM = 34,088 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CANNON AIR FORCE BASE, NEW MEXICO	4. PROJECT TITLE DORMITORY (96 RM)	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	CZQZ073005	14,000

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 420

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 DEC

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FUNITURE AND OTHER EQUIPMENT	3400	2012	624
COMMUNICATIONS EQUIPMENT	3400	2012	150

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE, NEW MEXICO	UAS SQUADRON OPS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35219	141-753	CZQZ093004	20,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				15,583
UAS SQUADRON OPERATIONS FACILITY	SM	3,345	4,545	(15,203)
ANTI-TERRORISM/FORCE PROTECTION	LS			(76)
SDD & EPACT 05	LS			(304)
SUPPORTING FACILITIES				2,449
UTILITIES	LS			(466)
PAVEMENTS	LS			(406)
SITE IMPROVEMENTS	LS			(425)
COMMUNICATIONS	LS			(452)
ELEVATORS	EA	2	150,000	(300)
GENERATORS	EA	2	200,000	(400)
SUBTOTAL				18,032
CONTINGENCY (5.0%)				902
TOTAL CONTRACT COST				18,934
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,079
TOTAL REQUEST				20,013
TOTAL REQUEST (ROUNDED)				20,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(3,500.0)

10. Description of Proposed Construction: Multi-story steel frame structure with reinforced concrete foundation and slab floor, split faced masonry CMU exterior and standing-seam metal roof. Includes utilities, pavements and site improvements, landscaping, fire protection, communications and all necessary support. Project will comply with DoD Antiterrorism/Force Protection requirements per the Unified Facilities Criteria.

Air Conditioning: 134 Tons

11. Requirement: 3345 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct UAS Squadron Operations Facility. (New Mission)

REQUIREMENT: The 33rd Special Operations Squadron (SOS) requires a squadron operations to support their MQ-9 Reaper UAS 24/7, 365 day/year operations from this location. Key functional areas include: the operations center, ground control stations (GCSs), mission planning, consolidated briefing rooms, current operations, scheduling, flight management, intel, plans, and tactics, mobility, supply, training, weather and adminstrative spaces for the commander and staff. The facility shall be digitally linked with the AF Distributed Ground Stations, 3 SOS Predator squadron, 27 Wing Operations Center and SOF units both deployed and in garrison.

CURRENT SITUATION: This facility is late to need. The 33 SOS activated 1 Aug 09. Cannon AFB requires the construction of a new facility to support the AFSOC addition of the Reaper UAS mission. Current facilities used for UAS operations are not capable of supporting the addition of MQ-9 mission or the 33 SOS. Operations will be inefficient with operators required to drive from building to building multiple times during the day to do routine operations. There is no single facility on base that could be used or converted to meet this requirement. This new facility

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE, NEW MEXICO	UAS SQUADRON OPS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35219	141-753	CZQZ093004	20,000

will support the initial beddown of the 33 SOS and the MQ-9 mission.

IMPACT IF NOT PROVIDED: Failure to provide facilities to support the mission beddown will significantly impact UAS combat operations. The 33 SOS will work out of temporary facilities at Cannon AFB, NM and is in need of a permanent facility to meet its unique mission requirements. Without an adequate facility, the beddown will be slowed due to inadequate available space for both personnel and mission operations. Also, day to day operations will be inefficient and disjointed with personnel spread out at three separate locations. Overall, the UAS mission will be adversely impacted without a suitable operations facility.

ADDITIONAL: This project meets the criteria/scope in Air Force Handbook 32-1084, "Facility Requirements." All known alternative options were considered during the development of this project. No other option could meet the mission requirement; therefore, no economic analysis was needed or performed. A certificate of exception will be prepared. Sustainable principles, to include life cycle cost-effective practice, will be intergrated int design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Anne M. Coverston, Phone: 575-784-2008. (UAS Squadron Operation Facility: 3,345 SM = 35,992 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE, NEW MEXICO	UAS SQUADRON OPS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35219	141-753	CZQZ093004	20,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	01-JAN-10
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	07-MAR-10
(e) Date Design Complete	02-SEP-10
(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	1,200
(b) All Other Design Costs	600
(c) Total	1,800
(d) Contract	1,500
(e) In-house	300
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	13 MAR

* 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)
COLLATERAL EQUIPMENT	3400	2013	2,500
COMMUNICATIONS EQUIPMENT	3400	2012	1,000

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE
3. INSTALLATION AND LOCATION HOLLOMAN AIR FORCE BASE, NEW MEXICO	4. COMMAND: AIR COMBAT COMMAND	5. AREA CONST COST INDEX 0.96

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	437	3554	1925	8	4	0	1	10	86	6,025
END OF FY 2015	395	3411	1829	8	4	0	1	10	86	5,744

7. INVENTORY DATA ($000)		
a. Total Acreage:	57,837	
b. Inventory Total as of : (30 Sep 09)		2,524,621
c. Authorization Not Yet in Inventory:		63,100
d. Authorization Requested in this Program:		37,970
e. Planned in Next Four Years Program:		23,720
f. Remaining Deficiency:		44,600
g. Grand Total:		2,694,011

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
211-177	UAS Add/Alter Maintenance Hangar	4,737	SM	15,470	DESIGN	BUILD
211-177	UAS Maintenance Hangar	5,580	SM	22,500	DESIGN	BUILD
		Total		37,970		

9a. Future Projects: Typical Planned Next Four Years:

112-111	Taxiway	35,000	SM	8,000
442-758	BEAR Set Asset Storage Facility	9,290	SM	15,720
				23,720

9b. Real Property Maintenance Backlog This Installation: ($M) 120

10. Mission or Major Functions: Air Combat Command; a fighter wing with F-22A squadrons, one German F-4 training squadron, a major command training squadron, a weapons testing and evaluation wing, and the war reserve material bare base support group.

11. Outstanding Pollution and Safety (OSHA Deficiencies):

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

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HOLLOMAN AIR FORCE BASE, NEW MEXICO	UAS ADD/ALTER MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35219	211-177	KWRD093013	15,470

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				11,889
AMU ADDITION	SM	1,022	2,736	(2,796)
MAINTENANCE HANGAR ALTERATION	SM	3,715	1,817	(6,750)
INSTALL FIRE SUPPRESSION	LS			(900)
REPAIR ROOF	LS			(1,158)
SDD & EPACT 05	LS			(190)
ANTITERRORISM/FORCE PROTECTION	LS			(95)
SUPPORTING FACILITIES				1,565
UTILITIES	LS			(600)
SITE IMPROVEMENT	LS			(50)
COMMUNICATIONS	LS			(640)
DEMOLISH EXISTING SOUTH LOW BAY	SM	509	540	(275)
SUBTOTAL				13,454
CONTINGENCY (5.0%)				673
TOTAL CONTRACT COST				14,127
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				805
TOTAL REQUEST				14,932
TOTAL REQUEST (ROUNDED)				15,470
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(60.0)

10. Description of Proposed Construction: Repair and renovate the existing Maintenance Hangar, B301, to include the addition of 1022 SM of new construction to house various functions of the AMU. Project will include renovation, reinforced concrete foundations and floor slabs, masonry walls, metal roof systems, updating electrical systems and lighting, fire detection/suppression, utilities, site improvements, communications support, and all other necessary support. Project will demolish the south low bay facility, repair existing roof, apply non-slip reflective epoxy coating to hangar floor and replace HVAC systems for hangar bay and north low bay. This project will comply with DoD antiterrorism/force protection requirements per Unified Facility Criteria.

Air Conditioning: 40 Tons

11. Requirement: 1022 SM Adequate: 0 SM Substandard: 1022 SM

PROJECT: UAS Add/Alter Maintenance Hangar. (New Mission)

REQUIREMENT: This project supports the AF objective of increasing UAS Combat Air Patrol (CAP) rates in support of Overseas Contingency Operations. Adequate facilities are necessary to establish a second Formal Training Unit (FTU) to achieve the increased CAP goal. The Maintenance Hangar, bldg 301, is required for performing routine sortie generation actions on assembled air vehicles. Hangar 301 is the MQ-9 AMU. The AMU and Maintenance Shop are required to provide UAS backshop support capability and to provide support for personnel assigned to sortie generation tasks, launch & recovery activities, and weather monitoring.

CURRENT SITUATION: The existing maintenance hangar, bldg 301, is not correctly

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HOLLOMAN AIR FORCE BASE, NEW MEXICO		4. PROJECT TITLE UAS ADD/ALTER MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 35219	6. CATEGORY CODE 211-177	7. PROJECT NUMBER KWRD093013	8. PROJECT COST ($000) 15,470

configured to support the maintenance actions required for the UAS FTU mission. Additionally, restrooms do not meet ADA requirements. Electrical panels are old and unserviceable. The large distribution conductors may no longer be sound. HVAC systems consist of steam boiler and HV units with steam coils. Many of the HV units are disconnected. The facility lacks an adequate fire suppression system.

IMPACT IF NOT PROVIDED: Failure to provide adequate facilities and infrastructure to support this new mission beddown will significantly impact UAS FTU sortie generation in the near-term and, ultimately, the capacity to provide the Combatant Commander's increased CAP rates in their AORs in the long-term. Adequate facilities will not be available to perform critical MQ-9 maintenance functions. This will force inefficient workarounds that will degrade mission accomplishment.

ADDITIONAL: This project meets the criteria and scope specified in Air Force Handbook 32-1084, "Facility Requirements". An analysis of reasonable options for accomplishing this project (status quo, renovation, construction) was done. Add/alter was found to be the most cost efficient over the life of the project. Sustainable principles, to include Life Cycle cost-effective pactices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. POC: Lt Col Christian J. Knutson, 575-572-3071. (Maintenance Hangar w/North Low Bay: 3,715 SM = 39,975 SF; AMU Addition: 1,022 SM = 11,000 SF; Roof: 4,370 SM = 47,000 SF).

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

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HOLLOMAN AIR FORCE BASE, NEW MEXICO	UAS ADD/ALTER MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35219	211-177	KWRD093013	15,470

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	
* (d) Date 35% Designed	30-SEP-09
(e) Date Design Complete	30-SEP-10
(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	0
(b) All Other Design Costs	464
(c) Total	464
(d) Contract	0
(e) In-house	0
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	40
FURNISHINGS	3400	2011	20

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HOLLOMAN AIR FORCE BASE, NEW MEXICO	UAS MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35219	211-177	KWRD093016	22,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				16,223
UAS MAINTENANCE HANGAR	SM	5,580	2,823	(15,752)
SDD & EPACT05	LS			(314)
ANTITERRORISM/FORCE PROTECTION (1%)	LS			(157)
SUPPORTING FACILITIES				3,363
PAVEMENTS	LS			(2,370)
UTILITIES	LS			(339)
SITE IMPROVEMENTS	LS			(271)
SURFACE DRAINAGE	LS			(383)
SUBTOTAL				19,586
CONTINGENCY (5.0%)				979
TOTAL CONTRACT COST				20,566
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,172
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				783
TOTAL REQUEST				22,521
TOTAL REQUEST (ROUNDED)				22,500)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(350

10. Description of Proposed Construction: Concrete footings and medium load rated concrete floor, metal structure, metal walls with masonary wainscoat, standing seam metal roof, high expansion foam fire suppression system and supporting infrastructure, medium load rated aircraft ramp surrounding the structure and all other required supporting infrastructure. Complies with Dod Force Protection requirements per the Unified Facilities Criteria.

Air Conditioning: 100 Tons

11. Requirement: 5580 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct Unmanned Aerial Systems (UAS) Maintenance Hangar (New Mission)

REQUIREMENT: MQ-1 and MQ-9 airframes require covered parking and maintenance space for all PAA. Given current and future PAA numbers generated by impending force structure changes at the UAS Flight Training Unit (FTU) II, Holloman AFB (HAFB) will require additional covered aircraft parking and maintenance space. HAFB covered parking and maintenance space requirement will exceed existing capacity in Mar 2010 and will continue to grow to a total deficit of 12 airframes in Sep 2012.

CURRENT SITUATION: HAFB currently has two existing maintenance hangars that are being reconfigured to meet maintenance requirements of both the MQ-1 and MQ-9, but they do not provide adequate parking or maintenance space to support sufficient numbers of mission capable aircraft required to meet sortie generation requirements for three full training squadrons. Sunshades were considered for meeting this requirement, but were deemed inadequate due to airframe-specific environmental requirements. Further existing space is not available to meet the requirement.

IMPACT IF NOT PROVIDED: If sufficient covered aircraft parking and maintenance space is not made available in a timely fashion, the required number of mission capable UAS required to meet training needs will not be available. Instead, vital training assets will be left in storage caskets and the overall training mission

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HOLLOMAN AIR FORCE BASE, NEW MEXICO		4. PROJECT TITLE UAS MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 35219	6. CATEGORY CODE 211-177	7. PROJECT NUMBER KWRD093016	8. PROJECT COST ($000) 22,500

will be unacceptably limited. Without sufficient training missions, the UAS FTU II cannot sustain the required training syllabus and therefore cannot produce the required number of trained aircrews needed to support the combatant commanders.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) was done. It indicates there is only one option that will meet minimum requirements. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the project design, development, and construction in accordance with Executive Order 13423, 10 USC 2803 (c) and other applicable laws and Executive Orders. POC: Lt Col Christian J. Knutson, 575-572-3071. (UAS Hangar: 5,580 SM = 60,063 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HOLLOMAN AIR FORCE BASE, NEW MEXICO	UAS MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35219	211-177	KWRD093016	22,500

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 675

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 SEP

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	13	100
END-USER COMM EQUIPMENT	3400	12	250

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST COST INDEX
KIRTLAND AFB NEW MEXICO	AIR FORCE MATERIAL COMMAND	1.01

6. PERSONNEL	PERMANENT			STUDENTS			SUPPORTED			
STRENGTH	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	343	1000	1415	110	150	0	593	2044	668	6,323
END FY 2015	385	1126	1567	110	150	0	483	1129	473	5,423

7. INVENTORY DATA ($000)

Total Acreage:	52,678	
Inventory (PRV $000) total as of : (30 Sep 09)		2,960,559
Authorization Not Yet in Inventory:		119,595
Authorization Requested in this Program ($000):		24,402
Planned in Next Four Years Program:		95,700
Remaining Deficiency:		566,133
Grand Total:		3,766,389

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
218-852	Aerial Delivery Facility Addition	600	SM	$3,800	Design Build	
215-552	Armament Shop	990	SM	$6,460	Design Build	
211-179	H/MC-130J Fuel System Maintenance Facility	3,000	SM	$14,142	Design Build	
		Total		$24,402		

9a. Future Projects: Typical Planned Next Four Years:

730-841	Military Working Dog Facility	625	SM	$4,400
171-627	PJ/CRO Aerial Ops Training Facility	1,200	SM	$4,900
171-623	PJ/CRO Urban Ops Training Center	6,000	SM	$9,000
724-417	Visiting Officers Quarters	1,847	SM	$7,900
740-674	AFNWC Sustain Center	1,482	SM	$22,700
721-312	Dormitory (120 RM)	3,960	SM	$25,700
730-835	Construct Security Forces Center	3,197	SM	$13,900
730-142	Replace Fire Station 3	680	SM	$7,200
		Total		$95,700

9b. Real Propery Maintenance Backlog This Installation: ($M) 256.6

10. Mission or Major Functions: The 377th Air Base Wing is the host organization at Kirtland AFB. It was activated under Air Force Material Command on 1 January 1993 and became part of the Nuclear Weapons Center on 31 March 2006. The Wing operates and maintains the Air Force's sixth largest base and an AF/VA joint medical facility. The Wing provides worldwide readiness, security and support for AF Operational Test and Evaluation Center, AF Safety Center, AF Inspection Agency, two AF Research Lab directorates, Defense Threat Reduction Agency, Department of Energy and Sandia National Laboratories.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE, NEW MEXICO	ARMAMENT SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	215-552	MHMV053114A	6,460

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				3,774
ARMAMENT SHOP	SM	990	3,700	(3,663)
ANTITERRORISM/FORCE PROTECTION	LS			(37)
SDD & EP ACT 05	LS			(74)
SUPPORTING FACILITIES				1,845
UTILITIES	LS			(984)
PAVEMENTS	LS			(370)
SITE IMPROVEMENTS	LS			(166)
COMMUNICATIONS	LS			(190)
DEMOLITION	SM	613	220	(135)
SUBTOTAL				5,619
CONTINGENCY (5.0%)				281
TOTAL CONTRACT COST				5,900
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				336
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				225
TOTAL REQUEST				6,461
TOTAL REQUEST (ROUNDED)				6,460)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(350

10. Description of Proposed Construction: One-story 1,000 SM (10,760 SF) Armament Shop, with a reinforced concrete foundation and floor, a low-slope standing seam metal roof, structural steel frame, and reinforced masonry exterior walls. Relocate existing utilities on site, and relocate sufficient POV parking to provide AT/FP setback. Supporting facilities include security lighting, fence and gates, paving, and connections to base utilities and communications systems. Demolish one building (613 SM). This project will comply with DoD antiterrorism/force protection requirements per the Unified Facility Criteria.

Air Conditioning: 30 Tons

11. Requirement: 990 SM Adequate: 0 SM Substandard: 613 SM

PROJECT: Armament Shop. (Current Mission)

REQUIREMENT: The Armament Shop services weapons systems in aircraft flown by the 58th Special Operations Wing (58th SOW) at Kirtland AFB and transient aircraft. The 58th SOW trains mission-ready special operations, search and rescue, recovery, and missile site support airlift crews for worldwide special operations. Weapons and aircraft must always be ready for immediate action. Weapons include the .50 caliber machine gun, M240 medium machine gun, and 7.62 mm Gatling machine gun which weighs 45 to 90 lbs each. Per DoD 5100.76-M all these are highly pilferable category II arms requiring extremely high security including weapons vault with vault doors, intrusion detection, and alarm systems. The New Armament Shop will contain weapons vault, weapons workshop, and cleaning areas, training room, restrooms, locker rooms with showers, and office space. It will have a vehicle drive-through for secure, all-weather loading and delivery, a compressed air system and special ventilation for weapons cleaning. Facility will be licensed to store limited quantities of Explosive Transport Class Division 1.4, Compatibility Groups

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE, NEW MEXICO	ARMAMENT SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	215-552	MHMV053114A	6,460

C & S, explosive devices. Projects builds sufficient new parking to relocate POVs presently parked too near the site to meet security and AT/FP setbacks.

CURRENT SITUATION: Existing Armament Shop is across a taxiway, one mile round trip from aircraft parking. This distance and slow transport speed significantly reduces operational productivity and responsiveness. Each round trip takes 15 to 20 minutes plus delays crossing the taxiway, resulting in one to two hours of lost time for 18 to 20 round trips daily, compared with new location close to the aircraft. Present shop is over 53 years old, very deteriorated, and at the end of its useful life. It is undersized by almost 40% which results in weapons being stacked in vault aisles, and weapons accessories being stored in leaky wooden sheds near the Shop. Training room is only 12 x 12 ft - too small to hold large weapons along with students and instructor. Restroom facilities are minimal and do not provide proper facilities to clean up after handling the weapons, cleaner/lubricants, and ammunition. Exterior walls are so deteriorated that water seeps through during rainstorms.

IMPACT IF NOT PROVIDED: Kirtland's Armament Shop will continue to operate in an undersize, deteriorated and outdated facility a long way from the aircraft it serves. The facility's condition, already bad, will continue to deteriorate and further erode productivity, morale and mission performance. Impacts of facility deficiencies will be magnified when additional aircraft and weapons begin arriving in FY10.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." All known alternative options were considered during development of this project. No other option could meet mission requirements. Therefore, no economic analysis has been performed and a certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Mr. D. Brent Wilson, P.E. (505) 846-7911. Armament Shop: 990 SM = 10,660 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO	4. PROJECT TITLE ARMAMENT SHOP	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	215-552	MHMV053114A	6,460

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 194

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE & EQUIPMENT	2400	2012	350

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE, NEW MEXICO	AERIAL DELIVERY FACILITY ADDITION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	218-852	MHMV083118	3,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				2,641
AERIAL DELIVERY ADDITION	SM	600	4,272	(2,563)
ANTITERRORISM/FORCE PROTECTION	LS			(26)
SDD & EPACT05	LS			(52)
SUPPORTING FACILITIES				665
UTILITIES	LS			(285)
PAVEMENTS	LS			(180)
SITE IMPROVEMENTS	LS			(100)
COMMUNICATIONS SUPPORT	LS			(100)
SUBTOTAL				3,306
CONTINGENCY (5.0%)				165
TOTAL CONTRACT COST				3,472
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				198
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				132
TOTAL REQUEST				3,802
TOTAL REQUEST (ROUNDED)				3,800)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(300

10. Description of Proposed Construction: One-story, 600 SM addition to existing Aerial Delivery Bldg 994, with reinforced concrete foundation and floor, structural steel frame, stucco finished exterior walls, and insulated standing seam metal roof. Includes HVAC system with humidity control, shop and administrative space, parachute drying tower, men's and women's restrooms, and locker rooms with showers. Relocate existing fenced open storage to provde space for the addition. Comply with DoD minimum force protection requirements per the Unified Facilities Criteria.

Air Conditioning: 30 Tons

11. Requirement: 1715 SM Adequate: 1115 SM Substandard: 0 SM

PROJECT: Aerial Delivery Facility Addition. (New Mission)

REQUIREMENT: The November 2007 site survey for HC/MC-130 recapitalization and Combat Search and Rescue helicopter (CSAR) training beddowns at Kirtland AFB determined that the existing Aerial Delivery facility (Bldg 994) is near maximum capacity and insufficient to support the projected increased workload, so an additional 600 SM of building space is required. The projected increase in aircraft and training sorties will increase the number of training loads, which will increase shop space and personnel to build, repair and rig loads, load aircraft, and recover loads, especially if new drop zones are created and/or multiple drop zones are being used simultaneously.

CURRENT SITUATION: The existing Aerial Delivery Facility is near maximum capacity and insufficient to support the increased workload and personnel to support new mission HC/MC-130 and CSAR aircraft and training loads.

IMPACT IF NOT PROVIDED: Without this project, there will be insufficient aerial delivery building space to support additional aircraft, personnel, and training loads for new mission HC/MC-130 and CSAR aircraft.

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO	4. PROJECT TITLE AERIAL DELIVERY FACILITY ADDITION	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	218-852	MHMV083118	3,800

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." All known alternative options were considered during development of this project. No other option could meet mission requirements; therefore, no economic analysis was performed. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Mr. D. Brent Wilson, P.E. (505) 846-7911. Aerial Delivery Addition: 600 SM = 6,500 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO	4. PROJECT TITLE AERIAL DELIVERY FACILITY ADDITION	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	218-852	MHMV083118	3,800

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 114

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 APR

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE & EQUIPMENT	3400	2011	300

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE, NEW MEXICO	H/MC-130 FUEL SYSTEM MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	211-179	MHMV083114	14,142

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				10,532
FUEL SYSTEM MAINTENANCE FACILITY	SM	3,000	3,409	(10,226)
ANTITERRORISM/FORCE PROTECTION	LS			(102)
SDD & EP ACT 05	LS			(204)
SUPPORTING FACILITIES				1,768
UTILITIES	LS			(600)
PAVEMENTS	LS			(500)
SITE IMPROVEMENTS	LS			(550)
COMMUNICATIONS SUPPORT	LS			(118)
SUBTOTAL				12,300
CONTINGENCY (5.0%)				615
TOTAL CONTRACT COST				12,914
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				736
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				492
TOTAL REQUEST				14,143
TOTAL REQUEST (ROUNDED)				14,142)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(500

10. Description of Proposed Construction: A pre-engineered steel structure with reinforced concrete foundation and floor, structural steel frame, corrugated steel walls and roof. Based on recent experience constructing a similar hangar at a location adjacent to this project site, over-excavation and soil improvement beneath the building footprint will be required to obtain proper soil bearing capacity. Includes heating and ventilation in the hangar area, full HVAC in shops and support spaces, fire detection and suppression, and all utilities systems. The project will comply with antiterrorism/force protection requirements per the Unified Facility Criteria.

Air Conditioning: 50 Tons

11. Requirement: 4222 SM Adequate: 0 SM Substandard: 1222 SM

PROJECT: H/MC-130 Fuel System Maintenance Facility. (New Mission)

REQUIREMENT: The November 2007 site survey for HC/MC-130 recapitalization, new mission training, and aircraft bed-down at Kirtland AFB determined that the one existing fuel system maintenance dock (building 1037) is at maximum capacity and cannot support additional aircraft. The current facility is only a nose dock for C-130 size aircraft and is too small to fully enclose a C-130 size aircraft. Therefore, the report recommended a new Fuel System Maintenance Facility that can fully enclose an aircraft up to the size of HC/MC-130 aircraft.

CURRENT SITUATION: Kirtland AFB currently has one fuel system maintenance dock and two designated outdoor maintenance spots. The maintenance dock is operating at maximum capacity supporting the current mission. The two outdoor spots are available only when weather permits, so they cannot be counted on to reliably support ongoing requirements. The existing maintenance dock does not fully enclose the C-130 and when winds exceed 15-20 knots, which frequently occurs, C-130

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO	4. PROJECT TITLE H/MC-130 FUEL SYSTEM MAINTENANCE FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	211-179	MHMV083114	14,142

maintenance must cease due to static electricity build-up on the exposed empennage. To shut down because of wind, all fuel tanks must be closed and all fuel lines must be reconnected. When winds abate all preparation steps must be repeated to resume maintenance work. This reduces productivity and significantly reduces C-130 aircraft maintenance throughput. The existing dock is adequate for smaller aircraft that can fit inside, but is too small for the HC/MC-130J. A new facility that can fully enclose C-130 aircraft is required to reliably and safely conduct fuel system maintenance of existing C-130 along with the added workload from new mission HC/MC-130J.

IMPACT IF NOT PROVIDED: Without this project, Kirtland AFB will not have sufficient fuel system maintenance facilities to maintain new mission HC/MC-130 aircraft along with existing aircraft, which will limit the availability of aircraft to support training mission requirements.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." All known alternative options were considered during development of this project. No other option could meet mission requirements; therefore, no economic analysis was needed or performed and a certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Mr. D. Brent Wilson, P.E. (505) 846-7911. H/MC-130 Fuel System Maintenance Facility: 3,000 SM = 32,280 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE, NEW MEXICO	H/MC-130 FUEL SYSTEM MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	211-179	MHMV083114	14,142

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 **424**

(4) Construction Contract Award **11 FEB**

(5) Construction Start **11 APR**

(6) Construction Completion **12 OCT**

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE & EQUIPMENT	3400	2012	500

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
FORT DRUM, NEW YORK	AIR COMBAT COMMAND	1.13

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	7	118	0	0	0	0	0	0	0	125
END FY 2015	7	118	0	0	0	0	0	0	0	125

7. INVENTORY DATA ($000)	
a. Total Acreage:	
b. Inventory Total as of : (30 Sep 09)	
c. Authorization Not Yet in Inventory:	0
d. Authorization Requested in this Program:	20,440
e. Planned in Next Four Years Program:	0
f. Remaining Deficiency:	
g. Grand Total:	20,440

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-753	20th Air Support Operations Squadron C	6,609	SM	20,440	DESIGN	BUILD
		Total		20,440		

9a. Future Projects: Typical Planned Next Four Years:
None

9b. Real Property Maintenance Backlog This Installation: ($M) 25

10. Mission or Major Functions: Army Garrison is home to the 10th Mountain Division (Light Infantry) composed of four Combat Brigades; an Aviation Brigade; and a Sustainment Brigade. Tenant includes the 20th Air Support Operations Squadron (Air Force) that provides joint air operations and weather support to the assigned Brigades through training and on the battlefield.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
FORT DRUM MILITARY RESERVATON, NEW YORK	20TH AIR SUPPORT OPERATIONS SQUADRON COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-753	WACC073020	20,440

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				14,586
AIR SUPPORT OPERATIONS SQUARDRON	SM	3,060	3,052	(9,339)
COVERD TRAILER PARKING	SM	1,142	542	(619)
ENCLOSED VEHICLE STORAGE	SM	2,407	1,712	(4,121)
SDD & EPACT 05	LS			(338)
ANTITERRORISM/FORCE PROCTECTION	LS			(169)
SUPPORTING FACILITIES				3,189
UTILITIES	LS			(540)
PAVEMENTS	LS			(550)
SITE IMPROVEMENTS	LS			(500)
COMMUNICATION SUPPORT	LS			(795)
DEMOLITION	SM	2,247	358	(804)
SUBTOTAL				17,775
CONTINGENCY (5.0%)				889
TOTAL CONTRACT COST				18,664
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,064
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				711
TOTAL REQUEST				20,439
TOTAL REQUEST (ROUNDED)				20,440)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(640

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, brick masonry exterior, standing seam metal roof, site preparation, utilities, fire detection/protection, landscaping, parking and access road, fencing, communication support, demolition of nine facilities (2,247 SM) and all other necessary support. This project will comply with antiterrorism/force protection requirements identified in DoD unified facilities criteria.

Air Conditioning: 50 Tons

11. Requirement: 5467 SM Adequate: 0 SM Substandard: 2671 SM

PROJECT: 20th Air Support Operations Squadron Complex. (New Mission)

REQUIREMENT: A facility to support the administrative, operational, training, storage, vehicle and equipment maintenance requirements of a large Air Support Operations Squadron (ASOS) at Fort Drum, New York. Chief of Staff of the Air Force directed the collocation of an ASOS with its aligned Army unit. Maintain mission-ready air support operational personnel, radios, vehicles and mobility equipment to provide command and control of close air support.

CURRENT SITUATION: The primary operations facility, a WWII-era two-story wood dormitory, is inadequately sized and poorly configured to support mission requirements. The ASOS functions are geographically separated in eleven old, inefficiently configured and undersized structures. (Nine of the eleven will be demolished). The complex does not support critical integrated mission requirements, necessitating duplication which results in a significant waste of

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
FORT DRUM MILITARY RESERVATON, NEW YORK	20TH AIR SUPPORT OPERATIONS SQUADRON COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-753	WACC073020	20,440

valuable manhours and technical resources. For example, the interior vehicle maintenance bays are too small and do not permit vehicles and associated weapon systems access. The locations of the existing facilities cause excessive travel time and their deteriorated condition detracts from morale and makes them expensive to maintain and operate.

IMPACT IF NOT PROVIDED: Failure to provide adequate facilities will continue to significantly impact ASOS operational capabilities. Adequate facilities will not be available to perform operations and maintenance functions critical to providing close air support. Valuable assets will remain exposed to harsh environments resulting in premature deterioration and increased maintenance costs.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and the Air Force ASOS Design Guide. An analysis for accomplishing this project (status quo, renovation, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Department of Engineering: Mr. Brian Applyby, (315) 772-6117.ASOS: 3,060 SM = 32,926 SF; Enclosed Vehicle Storage: 2,407 SM = 25,900 SF; Covered Trailer Parking: 1,142 SM = 12,288 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
FORT DRUM MILITARY RESERVATON, NEW YORK	20TH AIR SUPPORT OPERATIONS SQUADRON COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-753	WACC073020	20,440

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 613

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 13 MAR

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATION EQUIPMENT	3080	2011	225
FURNISHINGS	3400	2011	415

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
MINOT AIR FORCE BASE, NORTH DAKOTA	AIR COMBAT COMMAND	1.09

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	608	4332	960	0	0	0	0	0	61	5,961
END FY 2015	603	4339	942	0	0	0	0	0	61	5,945

7. INVENTORY DATA ($000)		
a. Total Acreage:	5,189	
b. Inventory Total as of : (30 Sep 09)		1,685,536
c. Authorization Not Yet in Inventory:		46,400
d. Authorization Requested in this Program:		18,770
e. Planned in Next Four Years Program:		63,900
f. Remaining Deficiency:		85,400
g. Grand Total:		1,900,006

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-453	Control Tower/Base Operations Facility	2,548	SM	18,770	Jun-09	Sep-10
		Total		18,770		

9a. Future Projects: Typical Planned Next Four Years:

721-312	Dormitory (168 RM)	6,384	SM	28,000
214-469	Proof Load Test Pit	1598	SM	6,900
171-475	Indoor Firing Range	4,668	SM	5,900
211-173	Add/Alter Dock 3	5,327	SM	19,000
212-212	Roll Transfer Facility	940	SM	4,100
		Total		63,900

9b. Real Property Maintenance Backlog This Installation: ($M)	98

10. Mission or Major Functions: A host bomb wing with B-52H aircraft, and an AF Space Command space wing with Minuteman III missiles.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MINOT AIR FORCE BASE, NORTH DAKOTA	CONTROL TOWER/BASE OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-453	QJVF012002	18,770

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				14,534
CONTROL TOWER	SM	711	10,711	(7,616)
BASE OPERATIONS	SM	1,837	3,536	(6,496)
SDD & EPACT 05	LS			(282)
ANTITERRORISM/FORCE PROTECTION	LS			(141)
SUPPORTING FACILITIES				2,378
UTILITIES	LS			(1,250)
PAVEMENTS	LS			(130)
SITE IMPROVEMENTS	LS			(359)
DEMOLITION	SM	1,854	205	(380)
ASBESTOS ABATEMENT	LS			(68)
COMMUNICATIONS SUPPORT	LS			(191)
SUBTOTAL				16,912
CONTINGENCY (5.0%)				846
TOTAL CONTRACT COST				17,758
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,012
TOTAL REQUEST				18,770
TOTAL REQUEST (ROUNDED)				18,770
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,296.0)

10. Description of Proposed Construction: Reinforced concrete footings, foundation, floor slab, supporting superstructure, control tower cab with tinted double glazing, utilities, pavements, site improvements, landscaping, fire detection/protection systems, elevator, back-up power, communication support, demolition of three facilities (1,854 SM), airfield lighting and control systems, asbestos abatement, and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 100 Tons

11. Requirement: 2548 SM Adequate: 0 SM Substandard: 996 SM

PROJECT: Construct a Control Tower/Base Operations Facility. (Current Mission)

REQUIREMENT: An Air Traffic Control (ATC) Tower is required to provide consolidated operations for air traffic control of all arriving and departing aircraft. The tower must integrate all ATC actions for military and non-military aircraft transitioning out of the en-route control structure into the Minot AFB environment. It must manage controlled and non-controlled aircraft approaches and departures as well as direct aircraft and ground traffic on the airfield. Base operations will house the Operational Support Squadron, aircrew flight planning, weather briefings, Notices to Airmen (NOTAM) safety information, maps, charts and a small distinguished visitor lounge for visiting personnel.

CURRENT SITUATION: The existing control tower has structural and mechanical problems that are beyond economical repair. Roofing systems leak badly during rainstorms despite multiple roof replacements and extensive repairs over the years.

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MINOT AIR FORCE BASE, NORTH DAKOTA	CONTROL TOWER/BASE OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-453	QJVF012002	18,770

Equipment and operations are regularly repositioned and tarps are used outside and inside the building during significant rain events to prevent damage to essential mission equipment. Existing fire suppression systems are inadequate due to modernization of the ATC mission and support equipment. All specialized ATC communications equipment, approach/departure controls and weather support equipment is in danger of being lost or significantly damaged in the event of a fire event. The base operations building is not adequately sized for the number of personnel and amount of equipment it houses and is geographically separated from the control tower. A July 2004 Air Traffic System Evaluation Program (ATSEP) Report noted: "Currently, facilities are scattered throughout the base making management and utilization of personnel extremely difficult. Consolidating functions will provide greater flexibility and responsiveness in meeting the wing's current and future operations." These problems have contributed to a limited loss of mission capability as they often require work-arounds to prevent mission disruption. Collocation of base operations and the control tower will also result in more effective use of scarce manpower resources and correct ATSEP shortfalls.

IMPACT IF NOT PROVIDED: Minot AFB houses the largest military approach control in the United States, providing RADAR approach service for over 4,800 square miles of airspace, which includes the base, Minot International Airport, and ten other surrounding airports. Communication and radar links with all aircraft operating in this area are in jeopardy of being lost, especially during inclement weather events, due to the degradated condition of the existing facilities. Any failures resulting in fire could quickly destroy the base's Air Traffic Control backbone due to inadequacy of the fire supression system. Scarce base Civil Engineer and Communications manpower and funding resources will continue to be taxed through ongoing repairs to the facility and communications network used to support the airfield environment. Current maintenance and repair costs average $125,000 per year for the base operations and tower facilities.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and "USAF Air Traffic Control Tower and RADAR Approach Control Facility Design Guide, November 15, 2001". An 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; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Monte S. Harner; Phone: (701) 723-2434. (Control Tower: 711 SM = 7,650 SF, Base Operations: 1,837 SM = 19,766 SF)

BASE CIVIL ENGINEER: Harner

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

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MINOT AIR FORCE BASE, NORTH DAKOTA	CONTROL TOWER/BASE OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-453	QJVF012002	18,770

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	30-SEP-09
(e) Date Design Complete	30-SEP-10
(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	1,126
(b) All Other Design Costs	563
(c) Total	1,689
(d) Contract	1,126
(e) In-house	563
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	13 MAR

* 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)
COMMUNICATION EQUIPMENT	3080	2012	2,046
FURNISHINGS	3400	2012	250

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
TINKER AIR FORCE BASE	AIR FORCE MATERIEL	COST INDEX
OKLAHOMA	COMMAND:	0.91

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	278	820	12475	0	0	0	1028	4718	623	19,942
END FY 2015	275	825	12176	0	0	0	983	4462	537	19,258

7. INVENTORY DATA ($000)

Total Acreage:	5,033	
Inventory Total as of : (30 Sep 09)		4,225,942
Authorization Not Yet in Inventory:		176,262
Authorization Requested in this Program:		14,000
Planned in Next Four Program Years		35,700
Remaining Deficiency:		906,125
Grand Total:		5,358,029

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
211-157	Upgrade Building 3001 Infrastructures, Phase 3	1	LS	14,000	Design Build	
		Total		14,000		

9a. Future Projects: Typically Planned Next Four Years

211-111	Alter AWACS Maintenance Group Facility	1,952	SM	10,200
217-742	32nd Combat Comm squadron Operations Fac	3,303	SM	15,000
149-962	Air Traffic Control Tower	692	SM	10,500
		Total		35,700

9b. Real Propery Maintenance Backlog This Installation: ($M) 563

10. Mission or Major Functions: Tinker Air Force Base combined mission includes operations, supply, maintenance and management in support of the 76th Maintenance Wing, 552nd ACW, 327th Air Sustainment Wing, 448th Combat Sustainment Wing, 3rd Combat Comm, Air Force Reserves, Navy Stratcomm Wing One, 72nd Air Base Wing, Defense Logistics Agency and Defense Information Systems Agency.

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 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TINKER AIR FORCE BASE, OKLAHOMA	UPGRADE BUILDING 3001 INFRASTRUCTURE, PH III

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	211-157	WWYK083003B	14,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				11,400
CHILLED WATER SYSTEMS	LS			(6,600)
UTILITY ENCLOSURE	LS			(4,600)
SDD & EPACT05	LS			(200)
SUPPORTING FACILITIES				780
CHILLED WATER CROSS-OVER SUPPORT STRUCTURE	LS			(680)
DEMO PIPING	LS			(100)
SUBTOTAL				12,180
CONTINGENCY (5.0%)				609
TOTAL CONTRACT COST				12,789
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				729
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				487
TOTAL REQUEST				14,005
TOTAL REQUEST (ROUNDED)				14,000

10. Description of Proposed Construction: Construct new chilled water supply and return mains (up to 24 inch in diameter) above the roof from column row 31 to column row 81 along the aisle between column rows W and X. Construct chilled water supply and return cross-mains (up to 24 inch in diameter). Construct a utility enclosure on the roof to house new main trunk lines. The utility enclosure will be used to house new main trunk lines. A trolley hoist and lighting will facilitate maintenance and repair of utility distribution lines.

11. Requirement: LS Adequate: LS Substandard: LS

PROJECT: Upgrade Building 3001 Infrastructure, PH III. (Current Mission)

REQUIREMENT: Replacement of the failing critical utility infrastructure of building 3001 is required to support the ever increasing demands of the Programmed Depot Maintenance (PDM) work center in support of aircraft, commodities, and propulsion PDM. Revitalization of the utility infrastructure in building 3001 is an element of the AFMC/OC-ALC long-term depot strategy to improve PDM on assigned workload.

CURRENT SITUATION: Aircraft PDM and depot engine and component item repair, maintenance and overhaul are performed in building 3001. The facility is approximately 65 years old and the utility systems have exceeded their life expectancy. A multiphased effort was initiated in 2002 to upgrade the infrastructure. The utility systems have either recently been replaced or are in need of replacement. The chilled water system was inadequate to properly cool new equipment like plasma spray booths and maintain reasonable space temperatures with the transformed production cells. Chillers and related equipment have largely been replaced, but the supply lines are inadequate to carry the volume of water needed for the modern units. Additionally, the age of the supply system creates maintenance problems as evidenced by two recent chilled water pipeline failures which caused production delays and flooded administrative offices. The current chilled water and utility infrastructure systems are installed in the Building 3001 superstructure above the production shops. This makes it difficult to service,

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA	4. PROJECT TITLE UPGRADE BUILDING 3001 INFRASTRUCTURE, PH III	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	211-157	WWYK083003B	14,000

maintain and/or replace these systems. The roof utility enclosure will minimize production impacts, reduce construction costs associated with accessibility, and lower overall life-cycle costs. The increased capacity of the lines also eliminates local capacity constraints and increases shop flexibility for future Lean Cell improvements.

IMPACT IF NOT PROVIDED: Aircraft PDM, depot engine and component item overhaul is the mission of the Oklahoma City Air Logistics Center and 76 MXW. The ability to accomplish this mission will be impacted by the inefficient present configuration and condition of the utility infrastructure. Lean cell improvements and equipment upgrades will not be supportable with existing infrastructure sized for previous generation equipment and inefficient layouts.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". An economic analysis has been prepared comparing the alternatives of status quo, new construction, contract workload, renovation, and other government facilities. Based on the net present values and benefits of the respective alternatives, renovation was found to be the most cost efficient over the life of the project. Sustainable principles, to include Life Cycle Cost-Effective practices will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. The requirement for this project was validated by the Joint Services Depot Maintenance Military Construction Review on 15 Aug 01. This is the third phase of a multi-phased effort to revitalize building 3001. Previous authorized and appropriated projects: FY04, Building 3001 revitalization, Phase I ($19.4M); FY06, Upgrade Building 3001 Infrastructure, Phase II ($20.0M). Base Civil Engineer: Mr. Gene Gallogly, P.E Phone: (405)-734-3451.

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 AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TINKER AIR FORCE BASE, OKLAHOMA	UPGRADE BUILDING 3001 INFRASTRUCTURE, PH III

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	211-157	WWYK083003B	14,000

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 420

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 JUN

(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 AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE 4-Jan-10
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE SOUTH CAROLINA	4. COMMAND: AIR MOBILITY COMMAND	5. AREA CONST COST INDEX 0.94

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	516	2873	978	11	39	5	350	1917	507	7,196
END FY 2015	513	3019	972	11	39	5	350	1917	507	7,333

7. INVENTORY DATA ($000)

Total Acreage:	6,486	
Inventory Total as of : (30 Sep 09)		1,639,034
Authorization Not Yet in Inventory:		14,300
Authorization Requested in this Program:		15,000
Planned in Next Four Years Program:		45,600
Remaining Deficiency:		81,300
Grand Total:		1,795,234

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
610-127	CE Complex (TFI) - Phase 1	4,416	SM	15,000	Mar 10	Sep 10
			TOTAL	15,000		

9a. Future Projects: Typical Planned Next Four Years:

9b. Real Propery Maintenance Backlog This Installation: ($M) 188

10. MISSION OR MAJOR FUNCTIONS:

Support of two military airlift wings, one active and one reserve associate; a joint-use airfield supporting international, cargo, and general aviation operations terminals; and a remote training airfield simulating forward operating conditions.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	CIVIL ENGINEER COMPLEX (TFI) - PHASE 1

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	610-127	DKFX913001P1	15,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				9,988
ENGINEERING/OPERATIONS	SM	2,727	2,179	(5,941)
READINESS	SM	1,689	2,237	(3,778)
SDD & EPACT05	LS			(186)
ANTITERRORISM/FORCE PROTECTION	LS			(83)
SUPPORTING FACILITIES				3,103
UTILITIES	LS			(348)
PAVEMENTS	LS			(254)
SITE IMPROVEMENTS	LS			(465)
DEMOLITION - VERTICAL	SM	3,451	198	(683)
DEMOLITION - HORIZONTAL	SM	2,299	54	(123)
COMMUNICATIONS/ENVIRONMENTAL/RELOCATION	LS			(750)
GROUND SOURCE HEAT PUMPS	LS			(480)
SUBTOTAL				13,091
CONTINGENCY (5.0%)				655
TOTAL CONTRACT COST				13,746
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				783
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				524
TOTAL REQUEST				15,053
TOTAL REQUEST (ROUNDED)				15,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,500

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs; brick veneer/split-faced block exterior finishes and standing seam sloped metal roofs; communications support for voice and data systems, fire detection/alarm systems, pavements with curbs/gutters, fire suppression sprinkler systems, sidewalks, security fencing, site restoration, and landscaping. Demolition of five facilities (3,451 SM) and associated pavements (2,299 SM), relocation of central energy monitoring system and equipment, environmental remediation as necessary and required, and comprehensive interior design. Comply with DoD antiterrorism/force protection requirements per the Unified Facility Criteria.

Air Conditioning: 80 Tons

11. Requirement: 4416 SM Adequate: 0 SM Substandard: 3451 SM

PROJECT: Construct Civil Engineer Complex (TFI) - Phase 1 (Current Mission)

REQUIREMENT: Consolidation of the principal Civil Engineer functions of administration, engineering, operations, and readiness to create a modern, conveniently located, and properly configured multi-facility complex. Functional collocation will incorporate both Joint Base Charleston and Total Force Integration (TFI) capabilities with current and future RED HORSE components.

CURRENT SITUATION: The existing engineering complex was constructed in 1955 and is in a state of disrepair. Since 1955, the original structure has received five

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	4. PROJECT TITLE CIVIL ENGINEER COMPLEX (TFI) - PHASE 1	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	610-127	DKFX913001P1	15,000

additions resulting in a poorly configured and inefficient facility that cannot keep pace with modern productivity demands of today's engineering/operations functions. The maintenance shops and storage buildings are of wood/metal construction built in the 1950s as temporary facilities and still in continuous use. The inadequate sizes of the shops do not permit personnel lockers for the assigned craftsman to store work clothes, tools, and personal protective equipment. The exterior siding dates from the original construction in 1955 and consists of severely deteriorating asbestos shingles, which pose potential health and safety risks and can no longer be repaired with similar materials. The flat roofs demand continuous repair and are energy-inefficient. The fire alarm systems are outdated. The heating, ventilation, air conditioning, and dust collection systems are ineffective, energy-inefficient, and obsolete. Exposed and untreated wood is rotted, cracked, and potentially threatening to the structural integrity of the facilities.

IMPACT IF NOT PROVIDED: The inefficient layout caused by the various facility additions is hindering productivity. With the current force structure, continued deployments impacting the military workforce availability, and increased customer demands stemming from TFI and joint basing initiatives at Charleston AFB, a new complex is vital to help the civil engineer function maximize its potential to meet tomorrow's diverse mission requirements. Retaining these energy inefficient, substandard, and obsolete facilities requires a disproportionate investment of dwindling operations and maintenance account resources.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. This project is Phase 1 of two phases to construct a new Civil Engineer Complex at Charleston AFB. Each phase is independently complete and usable. An economic analysis has been prepared comparing the reasonable alternatives of new construction/replacement, addition/repair, and status quo. Based on net present values and benefits of the respective alternatives, new construction was determined to be the most cost-effective option. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base civi Engineer: Lt Col Richard Sanders, (843) 963-4956. Engineering/Operations: 2,272 SM = 29,342 SF; Readiness: 1,689 SM = 18,174 SF.

JOINT USE CERTIFICATION: This facility is programmed for joint-use with the 560th RED HORSE squadron (AFR); however, it is fully funded by the Air Force. This project supports Total Force Integration initiatives.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	4. PROJECT TITLE CIVIL ENGINEER COMPLEX (TFI) - PHASE 1	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	610-127	DKFX913001P1	15,000

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 450

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 SEP

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
CID/FURNISHINGS	3400	2011	1,100
COMMUNICATIONS	3080	2011	400

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
DYESS AIR FORCE BASE, TEXAS	AIR COMBAT COMMAND	0.96

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	710	4579	753	28	137	3	4	32	41	6,287
END FY 2015	722	4723	723	28	137	3	4	32	41	6,413

7. INVENTORY DATA ($000)		
a. Total Acreage:	5,403	
b. Inventory Total as of : (30 Sep 08)		1,537,378
c. Authorization Not Yet in Inventory:		0
d. Authorization Requested in this Program:		4,080
e. Planned in Next Four Years Program:		21,700
f. Remaining Deficiency:		116,600
g. Grand Total:		1,679,758

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
171-212	C-130J Flight Simulator Addition	876	SM	$4,080	Aug-09	Sep-10
		Total		4,080		

9a. Future Projects: Typical Planned Next Four Years:				
610-243	Mission Operations Center	2,624	SM	13,300
610-243	C-130 Group Headquarters/)SS	2,014	SM	8,400
		Total		21,700

9b. Real Propery Maintenance Backlog This Installation: ($M)	155

10. Mission or Major Functions: 7th Bomb Wing comprised of B-1B bombers; B-1B Combat Crew Training; 317th Airlift Group comprised of C-130 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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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DYESS AIR FORCE BASE, TEXAS	C-130J ADD/ALTER FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	FNWZ103010	4,080

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				2,759
C-130 FLIGHT SIMULATOR FACILITY ADDITION	SM	575	3,562	(2,048)
ALTERATION EXISTING FLIGHT SIMULATOR FACILITY	SM	301	2,162	(651)
SDD & EP ACT 2005	LS			(40)
ANTITERRORISM/FORCE PROTECTION	LS			(20)
SUPPORTING FACILITIES				918
UTILITIES	LS			(329)
SITE IMPROVEMENTS	LS			(32)
PAVEMENT	LS			(165)
SPECIAL FOUNDATION	SM	575	311	(179)
FORCE PROTECTION	EA	12	4,450	(53)
COMMUNICATION SITE SUPPORT	LS			(160)
SUBTOTAL				3,677
CONTINGENCY (5.0%)				184
TOTAL CONTRACT COST				3,861
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				220
TOTAL REQUEST				4,081
TOTAL REQUEST (ROUNDED)				4,080
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(28,757.0)

10. Description of Proposed Construction: Construct a two story Weapons System Trainer (WST) high-bay addition to existing C-130 Flight Simulator Training Facility 7000. Construction elements to include site preparation, reinforced concrete drilled pier foundation with structural slab on grade, concrete and masonry building assembly on structural steel superstructure with exterior finish and roof to match existing, fire protection/alarm systems, communications support for voice and data systems, fire suppression sprinkler systems, security systems, and construction to integrate existing facility to accommodate new addition. Renovate existing C-130 motion bay and other training support spaces in facility 7000 to convert these areas to classrooms, briefing rooms, classified training and storage. New addition to include support spaces for computers and data storage, hydraulic pump operations, maintenance, restrooms, communication equipment room, electrical/mechanical room, and circulation. Site work includes pavement demolition, pavements with curbs and gutters for parking and access roadway, site restoration and landscaping, sidewalks, exterior lighting, and all necessary utilities and work associated with facility requirements. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facility Criteria.

Air Conditioning: 120 Tons

11. Requirement: 4232 SM Adequate: 3466 SM Substandard: 301 SM

PROJECT: Addition and alteration to Flight Simulator Training Facility Building 7000 to convert facility from C-130H to C-130J Weapons System Training. (New Mission)

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DYESS AIR FORCE BASE, TEXAS	C-130J ADD/ALTER FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	FNWZ103010	4,080

REQUIREMENT: Requirement is to support the C-130 conversion to replace H models with J models. The Wing will receive 28 PAA (plus 2 BAI) C-130J aircraft beginning in Jan 2010. This and future C 130J arrivals will decrement existing C-130H aircraft on a nearly 1:1 basis thru delivery of the last PAA C-130J in Oct 2012. Specific need is for a properly sized and configured facility addition to accommodate a new six-axis C-130J flight simulator, associated operational computers and motion hydraulic equipment, and maintenance support space. Additionally, renovate existing facility space to accommodate new classrooms, briefing rooms, and storage in support of the C-130J aircrew training program. Flight simulator is to provide required and essential initial qualification, proficiency, hazardous/emergency, and effective mission procedures training. Area must be securable to the Secret level and conform to the security architecture of the existing facility, meet requirements of AFOSH 91-118 for new construction, and comply with C-130 ATS Program Office physical security guidelines.

CURRENT SITUATION: Dyess AFB conducts C-130 aircrew flight simulator training in a single high bay facility that houses one C-130H flight simulator with enhanced visual upgrade. The existing bay is only large enough to fit the H model simulator. It cannot accommodate the larger J model simulator which requires a space (bay) that is ten feet longer, taller, and wider than the H model, and expansion of the existing space (bay) is not feasible or practical. A Site Activation Task Force (SATAF) conducted in January 09 for the C-130J conversion concluded the current simulator bay is too small and identified a requirement to construct a building addition to the existing simulator facility to fit the J model simulator, and alter interior spaces within the existing facility to accommodate C-130J training requirements. In effect, no flight simulator capabilities exist on Dyess AFB to train C-130J flight crews.

IMPACT IF NOT PROVIDED: C-130 flight crew training requirements cannot be resourcefully met without a C-130J flight simulator. Flight simulators provide around-the-clock availability, save on aviation fuel consumption, and reduce wear and tear on the aircraft. The current C-130H model simulator provides annual training IAW AFI 11-2C-130 Vol. I. This training includes an annual simulator refresher for pilots, navigators, engineers, loadmasters, and maintainers. The annual cost for TDYs to locations that have C-130J simulators is estimated at $467,100 per year. The ability of these locations to host the 317th is unknown at this time. Currently, the C-130 H model simulator at Dyess provides a cost-effective solution for training crewmembers. Flight crews train 20 hours per week in the simulator saving the government 1,040 flying hours per year. Based on current training volume, which is a reasonable gage for future training needs, the C-130 J model simulator will reduce annual flying costs by $7.3M as the C-130J aircraft flying cost is $7000 per hour. Conversely, the annual cost to operate and maintain a simulator training facility is $5.0M for an annual savings of $2.3M not counting additional aircraft maintenance savings from reduced flying hours. Similar savings are expected utilizing the C-130J flight simulator for training.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements," and conforms to requirements established in the Lockheed Martin C-130J Aircrew Training System Facility Design Criteria. An analysis was conducted that compared status quo to reasonable construction alternatives to include construction of a new simulator training facility and construction of new addition to the current training facility. Based on net present values and benefits of the respective alternatives, construction of a new addition to the current simulator training facility was determined to be the most cost-effective option. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DYESS AIR FORCE BASE, TEXAS	C-130J ADD/ALTER FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	FNWZ103010	4,080

Christopher G. Duffy, (325) 696-2250. C-130J Flight Simulator Addition: Addition - 575 SM = 6,194 SF; Alteration - 301 SM = 3,234 SF.

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

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DYESS AIR FORCE BASE, TEXAS	C-130J ADD/ALTER FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	FNWZ103010	4,080

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	21-AUG-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	35%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	23-SEP-10
(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	245
(b) All Other Design Costs	122
(c) Total	367
(d) Contract	306
(e) In-house	61
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 MAR

* 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)
C-130J FLIGHT SIMULATOR	3080	2010	28,600
FURNISHINGS	3400	2011	100
COMMUNICATION EQUIPMENT	3400	2011	32
COMMUNICATION EQUIPMENT	3080	2011	25

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE
3. INSTALLATION AND LOCATION ELLINGTON FIELD, TEXAS	4. COMMAND: AIR NATIONAL GUARD	5. AREA CONST COST INDEX 0.85

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
AS OF 30 SEP 09										
END FY 2015										

7. INVENTORY DATA ($000)

a. Total Acreage:	
b. Inventory Total as of : (30 Sep 09)	
c. Authorization Not Yet in Inventory:	
d. Authorization Requested in this Program:	7,200
e. Planned in Next Four Years Program:	0
f. Remaining Deficiency:	
g. Grand Total:	7,200

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
211-111	TFI-UPGRADE UAV MAINTENANCE HANGAR	5,807	SM	7,200		
		Total		7,200		

9a. Future Projects: Typical Planned Next Four Years:

9c. Real Property Maintenance Backlog This Installation:

10. Mission or Major Functions: Intelligence, Surveillance and Reconnaissance mission for the United States' southern border. Ellington will retain its capability to support the Homeland Defense mission and will continue to preserve the Air Sovereignty Alert site capability by using F-16/D aircraft assigned elsewhere and operating from Ellington on a rotational basis.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELLINGTON FIELD, TEXAS	TFI-UPGRADE UAV MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
25219	211-111	WACC113340	7,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				6,060
UPGRADE UAV MAINTENANCE HANGAR	SM	5,807	1,012	(5,877)
ANTITERRORISM/FORCE PROTECTION	LS			(61)
SDD & EPACT 05	LS			(122)
SUPPORTING FACILITIES				240
UTILITIES SUPPORT	LS			(85)
COMMUNICATION SUPPORT	LS			(30)
SITE IMPROVEMENTS	LS			(125)
SUBTOTAL				6,300
CONTINGENCY (5.0%)				315
TOTAL CONTRACT COST				6,615
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				377
TOTAL REQUEST				6,992
TOTAL REQUEST (ROUNDED)				7,000

10. Description of Proposed Construction: Interior renovation to include rearrangement and upgrade of interior shop walls and utility systems. Work will include electrical, plumbing, fire detection and suppression systems, heating, ventilation, and air conditioning systems. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facilities Criteria.

Air Conditioning: 100 Tons

11. Requirement: 5807 SM Adequate: 0 SM Substandard: 5807 SM

PROJECT: Upgrade UAV Maintenance Hangar (New Mission)

REQUIREMENT: The base requires a properly configured space in which to perform training, maintenance and storage on a family of Unmanned Aerial Vehicle (UAV) weapon systems starting with the MQ1. Functional areas include: hangar space for parking, storage, maintenance shops, parts, equipment, mobility storage, weapon systems maintenance management, and administrative support space. Additional control must be included to prevent false fire suppression system discharged and damage the predator aircraft. The UAV will use Fort Polk, LA as the launch and recover (LRE) base; the UAV will be transported by vehicle to Ellington where they will be assembled, maintained, repaired, and stored and then transported back to Fort Polk for the LRE.

CURRENT SITUATION: Under Base Realignment and Closure, F-16 aircraft are no longer permanently based at Ellington Field; however, the installation will continue to support an ASA Alert Detachment using aircraft from other installations. This reduced flying posture makes many flight line facilities available since aircraft maintenance activities on the F-16 will be performed by the home stations of units providing the Alert assets. One such space that has become available is the maintenance hangar. Since the hangar was originally configured for manned jets, it will require upgrades in order to meet UAV maintenance requirements. Shop space will need to be rearranged; the fire suppression needs to be upgraded to prevent possible false discharge and consequent airframe damage.

IMPACT IF NOT PROVIDED: Unmanned Aerial Vehicle maintenance and training will not be able to take place safely. Full Operational Capability will not be obtained.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELLINGTON FIELD, TEXAS	TFI-UPGRADE UAV MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
25219	211-111	WACC113340	7,000

ADDITIONAL: This project meets the criteria/scope specified in the Air National Guard Handbook 32-1084, Facility Requirements and is in compliance with the base master plan. All known alternative options were considered during the development of this project. No other option could meet the mission requirements; therefore no economic analysis was needed or performed. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Base Civil Engineer: Maj Gary Kerr, 281-929-2638. (Upgrade Hangar Area: 5,807 SM = 62,508 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.

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELLINGTON FIELD, TEXAS	TFI-UPGRADE UAV MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
25219	211-111	WACC113340	7,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	10-JAN-10
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-MAR-10
(e) Date Design Complete	15-SEP-10
(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	420
(b) All Other Design Costs	210
(c) Total	630
(d) Contract	525
(e) In-house	105

(4) Construction Contract Award	11 JAN
(5) Construction Start	11 MAR
(6) Construction Completion	12 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

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
LACKLAND AFB	AIR EDUCATION AND	COST INDEX
TEXAS	TRAINING COMMAND	0.92

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	2431	9542	5497	132	6843	0	2365	9866	2,649	37,892
END FY 2015	2416	9199	5492	132	6843	0			1992	38,328

7. INVENTORY DATA ($000)		
a. Total Acreage:	7,454	
b. Inventory Total as of : (30 Sep 09)		3,987,839
c. Authorization Not Yet in Inventory:		314,525
d. Authorization Requested in this Program:		127,280
e. Planned in Next Four Years Program:		406,825
f. Remaining Deficiency:		793,577
g. Grand Total:		5,630,046

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
171-621	BMT Satellite Classroom/Dining Fac #2, P	9,898	SM	32,000	May 09	Sep 10
171-627	Recruit/Family Inprocessing and Info Cent	6,531	SM	21,800	Design Build	
730-142	One Company Fire Station JBSA	995	SM	5,500	Design Build	
721-311	Recruit Dormitory, Phase 3	24,407	SM	67,980	Design Build	
			Total	127,280		

9a. Future Projects: Typical Planned Four Years:

730-835	Security Forces Consolidated Ops Fac	2,350	SM	10,057
100-001	Enlisted Dormitory, San Antonio	1	LS	53,000
100-001	Replace BMT Facilities	1	LS	92,082
100-001	Replace BMT Facilities	1	LS	107,114
100-001	Replace BMT Facilities	24,407	SM	74,129
100-001	Replace BMT Facilities	24,407	SM	70,443
			Total	406,825

9b. Real Property Maintenance Backlog This Installation ($M) 76

10. Mission or Major Functions: A training wing which includes Basic Military Training School, Security Forces, Combat Convoy/Arms/Control, Pararescue, Survival Evasion Resistance Escape, Logistics, Enlisted Aircrew, Services, Contracting, Vehicle Maintenance, and Military Training Instructor, Defense Language Institute English Language Center, and Inter-American Air Forces Academy, Department of Defense Military Working Dog Training. Additional missions include Air Force Security Forces Center, Recruiting, cryptographic maintenance, Air Force Reserve C-5 training, a major Air Force medical center, and Intelligence/Reconnaissance/Surveillance Operations.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	BMT SATELLITE CLASSROOMS/DINING FACILITY NO.2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
84711	171-621	MPLS083737S2	32,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				26,262
BMT CLASSROOMS	SM	4,846	2,048	(9,925)
DINING SERVERY	SM	3,228	2,713	(8,758)
KITCHEN, BAKERY, FOOD STORAGE	SM	1,824	3,736	(6,814)
ANTITERRORISM/FORCE PROTECTION	LS			(255)
SDD AND EP ACT 2005	LS			(510)
SUPPORTING FACILITIES				2,585
SITE IMPROVEMENTS	LS			(600)
SPECIAL DRILLED PIER FOUNDATION	LS			(500)
UTILITIES	LS			(935)
PAVEMENTS	LS			(100)
COMMUNICATIONS	LS			(200)
DEMOLISH AND ABATE FACILITIES	SM	2,417	103	(250)
SUBTOTAL				28,847
CONTINGENCY (5.0%)				1,442
TOTAL CONTRACT COST				30,289
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,726
TOTAL REQUEST				32,015
TOTAL REQUEST (ROUNDED)				32,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,709.0)

10. Description of Proposed Construction: Construction includes a multi-story facility consisting of a drilled pier foundation, concrete floor slabs, structural steel frame, masonry walls, standing seam metal roof, and an elevator. Provides all necessary support to include 12 ft wide troop walks, utilities, parking, communications, and restores all areas disturbed by construction. Demolishes two facilities totaling 2,417 SM. Complies with DoD Minimum Antiterrorism/Force Protection Standards per Unified Facilities Criteria.

Air Conditioning: 520 Tons

11. Requirement: 9898 SM Adequate: 0 SM Substandard: 6996 SM

PROJECT: Basic Military Training (BMT) Satellite Classroom/Dining Facility. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide recruits with facilities conducive to their proper housing, dining, and training. Properly sized, sited, designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. This project provides the second of four satellite dining hall/classroom buildings in the Basic Military Training (BMT) recruit housing and training facility recapitalization program. Each Dining/Classroom facility will serve two new recruit dormitories (~2500 recruits). This project replaces dining hall and classroom facilities that are currently located in the Recruit Housing & Training (RH&T) buildings. The ground floor will consist of a serving area, kitchen, and dining area. The second and third floors will consist of classrooms. The third phase of the BMT facilities recapitalization program

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS	4. PROJECT TITLE BMT SATELLITE CLASSROOMS/DINING FACILITY NO.2	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
84711	171-621	MPLS083737S2	32,000

includes this project and one companion project that will construct the third of eight total dormitories, Project MPLS083737R3.

CURRENT SITUATION: Recruit Housing & Training facilities, the BMT program, and Lackland AFB form an initial, but lasting impression of the Air Force to all new recruits. Existing 215,000 SF RH&T facilities, originally constructed in the 1960's and 1970's, were designed to provide housing, dining, classrooms, and other training space in one facility to develop teamwork, discipline, and espirit de corps among the recruits. These facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding their useful life, the RH&Ts require significant O&M capital to keep them operational -- an estimated annual average of $2.1M per RH&T ($16.8M for the existing 8 RH&T facilities). BMT has difficulty accommodating summer recruit surges while accomplishing maintenance, repair and renovation projects of the aging, inadequate, and substandard RH&Ts. Recruits must repeatedly dine in over-crowded conditions as maintenance crews react to the many utility system failures. The existing classroom space in the RH&Ts is approximately one-half of what is required. The mechanical, electrical, lighting systems, and interior finishes are at the end of their useful lives and require replacement. The food preparation and serving areas are currently located in each RH&T building and need to be centralized to improve efficiency and accommodate new equipment.

IMPACT IF NOT PROVIDED: Without quality BMT programs and adequate facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. Facilities will continue to age and will require increasingly more capital to keep them operational. The Dining/Classroom Facility is the key supporting building required for the successful operation of two ATC dormitories. Its 2,500 person serving capacity and the 16 classrooms are critical to the BMT program in the new Airmen Training Complex configuration. Lackland does not have another dining facility capable of serving 2,500 people in addition to their current clientele, so the recruits could not move out of the aging RH&T buildings to allow for their demolition.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. Extensive utility work is required to accommodate this and future BMT facilities, to include increasing the size of water and sewer mains, and upgrading/burying the electrical system. An Economic Analysis was performed demonstrating the economic advantage of new construction to meet the program requirements. Based on the new present value and benefits of prospective alternatives, new construction was found to have the best overall ratio of life cycle cost vs. benefit. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. BASE CIVIL ENGINEER: Lt Col Ardyce Clements, COMM (210) 671-2977. BMT Classrooms: 4,846 SM = 52,143 SF. Dining Servery: 3,228 SM = 34,773 SF. Kitchen/Bakery/Food Storage: 1,824 SM = 19,626 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	BMT SATELLITE CLASSROOMS/DINING FACILITY NO.2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
84711	171-621	MPLS083737S2	32,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	13-MAY-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	29-JAN-10
(e) Date Design Complete	30-SEP-10
(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	1,920
(b) All Other Design Costs	960
(c) Total	2,880
(d) Contract	2,550
(e) In-house	330
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 APR
(6) Construction Completion	13 APR

* 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)
FURNISHINGS AND EQUIPMENT	3400	2012	1,709

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	ONE COMPANY FIRE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	730-142	MPLS116414JB	5,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				3,877
FIRE STATION	SM	995	3,783	(3,764)
ANTITERRORISM/FORCE PROTECTION	SM	995	38	(38)
SDD & EP ACT 05	SM	995	76	(75)
SUPPORTING FACILITIES				895
UTILITIES	LS			(355)
PAVEMENTS	LS			(180)
SITE IMPROVEMENTS	LS			(89)
COMMUNICATIONS	LS			(271)
SUBTOTAL				4,772
CONTINGENCY (5.0%)				239
TOTAL CONTRACT COST				5,011
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				286
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				191
TOTAL REQUEST				5,487
TOTAL REQUEST (ROUNDED)				5,500)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(750

10. Description of Proposed Construction: Construct fire station including reinforced concrete foundation and floors, masonry walls and roof system. Includes three functional areas: apparatus bays, residential area, and administration area. Project will comply with DoD force protection requirements per the Unified Facilities Criteria.

Air Conditioning: 25 Tons

11. Requirement: 995 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct One Company Fire Station. (Current Mission)

REQUIREMENT: This project is required to provide fire fighting and emergency response capabilities to 250 military family housing units housing an estimated 1,250 family members, DoD dependant elementary, middle and high school complexes supporting a population of 1,430 students, and 48 additional facilities to include a Child Development Center and 2 Youth Centers. In order to meet the requirements of DoDI 6055.6, Enclosure 3, for response time/staffing and in order to safeguard DoD facilities against fire and to provide adequate response time on emergency calls, a one-company satellite fire station is necessary. The Fire Department's current operation does not meet DoDI 6055.6, Table E-3.T. "Minimun Level of Service Objectives". The HQ Department of the Army approved implementation of the DoDI 6055.06 Manpower Model also drives the need for additional firefighter manpower as well as additional space to support this projected manpower increase.

CURRENT SITUATION: Currently fire fighting and emergency response is being provided to the Watkins Terrace area by fire unit stations stationed on the main base area of Fort Sam Houston. Due to the distance/mileage between the main base area and Watkins Terrace sector response times for emergency fire apparatus fail to meet DoDI 6055.06, Table E3.T1 Minimum Level of Service Objectives. This deficiency has been identified and documented repeatedly by Subject Matter Experts

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	ONE COMPANY FIRE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	730-142	MPLS116414JB	5,500

during Operational Readiness Inspections. A review of existing facilities at Fort Sam Houston indicates that there are no adequate facilities available to convert into a fire station to correct this deficiency.

IMPACT IF NOT PROVIDED: If this project is not provided, the response times for fire fighting and emergency response to the Watkins Terrace area will fail to meet DoDI 6055.06 requirements. Soldiers, civilians, and family members will remain at an increased risk for fire/life safety while working, living or visiting facilities on Ft Sam Houston.

ADDITIONAL: This project meets the criteria/scope in Air Force Handbook 32-1084, "Facility Requirements". A preliminary analysis comparing of reasonable options for accomplishing this project (status quo, construction, and renovation) was done. It indicates that there is only one option that will meet operational requirements, new construction. A certificate of exception is being prepared. The Deputy Assistant Secretary of the Army (Installations and Housing) certifies that this project has been considered for joint use potential. Sustainable principles, to include Life Cycle cost-effective proctices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Director of Public Works: Mr. Michael Grizer, (210) 221-5439: One Company Fire Station: 995 SM = 10,700 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 Army & Air Force requirements.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS	4. PROJECT TITLE ONE COMPANY FIRE STATION	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	730-142	MPLS116414JB	5,500

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 165

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FIRE STATION SUPPORT EQUIPMENT	3080	2011	750

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	RECRUIT DORMITORY PHASE 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
84711	721-311	MPLS083737R3	67,980

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				52,277
RECRUIT DORMITORY (1248 PN)	SM	19,900	2,091	(41,601)
INSTRUCTOR ADMINISTRATIVE SPACE	SM	1,225	2,327	(2,851)
TRAINING/FORMATION OPEN SPACE	SM	3,282	1,920	(6,301)
ANTITERRORISM/FORCE PROTECTION	LS			(508)
SDD & EP ACT 05	LS			(1,016)
SUPPORTING FACILITIES				8,430
SITE IMPROVEMENTS	LS			(1,450)
SPECIAL DRILLED PIER FOUNDATION	LS			(1,450)
UTILITIES	LS			(3,300)
PAVEMENTS	LS			(1,830)
COMMUNICATIONS INFRASTRUCTURE	LS			(400)
SUBTOTAL				60,707
CONTINGENCY (5.0%)				3,035
TOTAL CONTRACT COST				63,742
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				3,633
DESIGN/BUILD - DESIGN COST (1.0% OF SUBTOTAL)				607
TOTAL REQUEST				67,983
TOTAL REQUEST (ROUNDED)				67,980)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,695

10. Description of Proposed Construction: Construction includes a multi-story facility consisting of a drilled pier foundation, concrete floor slab, structural steel frame, masonry walls, standing seam metal roof, and an elevator. Areas include administrative support, open-bay dormitories, central latrines, drill pad, physical training area, and storage. Complies with DoD anti-terrorism/force protection requirements as per the unified facilities criteria.

Air Conditioning: 900 Tons Grade Mix: E1-E4 0

11. Requirement: 169000 SM Adequate: 0 SM Substandard: 133162 SM

PROJECT: Construct Basic Military Training Recruit Dormitory. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide recruits with facilities conducive to proper housing, dining, and training. Properly sized, sited, designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. To support current accession rates, a total of 8 Recruit Housing & Training (RH&T) facilities are required to accomplish the Basic Military Training (BMT) mission at Lackland AFB. This project provides the third RH&T dormitory building in the RH&T Replacement program. This facility will house a Basic Military Training Squadron including dormitory and administrative space. This project is designed to accommodate 1248 recruits; 48 recruits per flight, 24 flights per squadron with 4 reserve bed spaces per flight in order to address surges, gender separation and injured recruits. This project will also construct new drill pads, running tracks, exercise areas, war skills training areas, and pavilions for training weapons cleaning, storage, and latrines. Construction of

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	RECRUIT DORMITORY PHASE 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
84711	721-311	MPLS083737R3	67,980

the second BMT Satellite Classroom/Dining Facility to support these dormitories is accomplished by companion project MPLS083737S2.

CURRENT SITUATION: RH&T facilities, the BMT program, and Lackland AFB form an initial, but lasting impression of the Air Force to all new recruits. Existing 210,000 SF RH&T facilities, originally constructed in the 1960's and 1970's, were designed to provide housing, dining, classrooms, and other training space in one facility in order to develop teamwork, discipline, and Espirit de Corps among the recruits. These facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding their useful lives, the RH&Ts require significant O&M capital to keep them operational -- an estimated annual average of $2.1M per RH&T ($16.8M for today's 8 RH&Ts) for the next 28 years according to the facility assessment study and detailed Economic Analysis. Available training hours, training quality, cohesiveness, and Esprit de Corps are degraded as a direct result of decentralized BMT facilities and functions. A centralized, master planned, BMT campus does not exist. BMT has difficulty accommodating summer recruit surges while accomplishing maintenance, repair and renovation projects of the aging, inadequate, and substandard RH&Ts. Recruits do not have the minimum standard square footage during surge and overhaul periods forcing as many as 65 recruits per flight in facilities designed for 50 recruits per flight. This further stresses infrastructure systems and accelerates deterioration. The fire protection system is inadequate and obsolete. The mechanical, electrical, and lighting systems and interior finishes are at the end of their useful lives and require replacement. The food preparation, serving areas, and laundry area layouts are functionally inefficient and need to be centralized to improve efficiency and accommodate new equipment.

IMPACT IF NOT PROVIDED: One of Lackland Air Force Base's primary missions is to educate and train every BMT enlisted recruit when entering military service in the U.S. Air Force. Without quality BMT programs and state-of-the-art, master-planned facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. BMT schedules will continue to be stretched to critical levels that risk mission loss. Facilities will continue to age and will require increasingly more capital to keep them operational. During surge periods, or when existing RH&Ts are being repaired, maintained, or overhauled, flight sizes will increase and recruits will continue to live in space with less than the minimum standard square footage per recruit. Significant capital must be spent to convert the existing RH&T facilities to current antiterrorism/force protection (AT/FP) criteria.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. An Economic Analysis was prepared comparing the alternatives of new construction; renovation of existing RH&T dormitory buildings, including living areas, classrooms areas, administrative areas, and dining/kitchen areas; and status quo. Based on the net present value and benefits of prospective alternatives, new construction was found to have the best overall ratio of life cycle cost vs. benefit. Furthermore, the Economic Analysis indicates that constructing new RH&T facilities within the next 10 years will avoid an anticipated major investment in maintenance and repair that is projected for years 2011 - 2040. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. BASE CIVIL ENGINEER: Lt Col Ardyce Clements, COMM (210) 671-2977. BMT Recruit Dormitory: 19,900 SM = 214,124 SF; Instructor Administrative Space: 1,225 SM = 13,181 SF; Training/ Formation Open Space: 3,282 SM = 35,314 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS	4. PROJECT TITLE RECRUIT DORMITORY PHASE 3	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
84711	721-311	MPLS083737R3	67,980

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 2,040

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 13 SEP

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
WALL LOCKERS AND FURNISHINGS	3400	2012	2,507
ADPE	3400	2012	188

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	RECRUIT/FAMILY INPROCESSING & INFORMATION CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
84711	171-627	MPLS093737V	21,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				16,453
VISTORS RECEPTION/ADMINISTRATIVE	SM	3,051	2,369	(7,226)
AUDITORIUM/RECRUIT MASS BRIEFING	SM	3,480	2,510	(8,735)
ANTITERRORISM/FORCE PROTECTION	LS			(164)
SDD AND EP ACT 2005	LS			(328)
SUPPORTING FACILITIES				2,495
ELEVATOR (FOR ADA COMPLIANCE)	LS			(450)
SITE IMPROVEMENTS (INCLUDES LANDSCAPING)	LS			(300)
SPECIAL DRILLED PIER FOUNDATION	LS			(225)
UTILITIES	LS			(300)
PAVEMENTS	LS			(750)
DEMOLITION/ABATEMENT	SM	3,759	125	(470)
SUBTOTAL				18,948
CONTINGENCY (5.0%)				947
TOTAL CONTRACT COST				19,895
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,134
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				758
TOTAL REQUEST				21,787
TOTAL REQUEST (ROUNDED)				21,800)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(220

10. Description of Proposed Construction: Constructs a facility consisting of a drilled pier foundation and concrete floor slab, a structural steel frame, masonry walls, an elevator, and a standing seam metal roof system. Areas include administrative support, training orientation display, lounge, and storage. Project also includes outdoor review pad with spectator bleachers and visitor parking. Demolishes 3 buildings totalling 3,759 SM. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facility Criteria.

Air Conditioning: 150 Tons

11. Requirement: 6531 SM Adequate: 0 SM Substandard: 6051 SM

PROJECT: Construct a Recruit/Family Inprocessing and Information Center. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide recruits with facilities conducive to their proper housing, dining, and training. Properly sized, sited, designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. Existing recruit housing and training facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Air Force Reserve, and Air National Guard personnel considering future force structure and strength. To support current accession rates, a total of eight dormitories, four satellite classroom/ dining facilities, and a consolidated Recruit/Family Inprocessing and Information Center (RFIIC) are required to accomplish the Basic Military Training (BMT) mission at Lackland AFB. This project

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	RECRUIT/FAMILY INPROCESSING & INFORMATION CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
84711	171-627	MPLS093737V	21,800

provides an RFIIC, which will provide a centralized and prominent facility to accommodate over 300,000 visitors annually as a vsitor reception center as well as serve as the mass briefing/initiation center for 1,200 arriving raw recruits every Monday night.

CURRENT SITUATION: A temporary recreation center facility constructed in 1969 was converted for this purpose in 1991. Its site location adjacent to a major through traffic street forces as many as 1,000 visitors and their vehicles to park wherever they can and cross the busy thoroughfare during peak traffic hours. The facility is undersized for the number of visitors it handles thereby degrading the expectations of the visitors and their recruit family members. This facility is worn out from use. The fire protection system is inadequately configured to meet modern fire protection standards.

IMPACT IF NOT PROVIDED: One of Lackland Air Force Base's primary missions is to educate and train every Basic Military Training (BMT) enlisted recruit when entering military service in the U.S. Air Force. Without quality BMT programs and state-of-the-art, master-planned facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. BMT schedules will continue to be stretched to critical levels that risk mission loss. Facilities will continue to age and will require increasingly more capital to keep them operational. Without the RFIIC, the new Recruit Housing and Training Facilities Replacement Plan can not be completed. Significant capital would be spent to convert the existing, inadequate facility to current antiterrorism/force protection criteria and to replace the existing fire protection system.

ADDITIONAL: This project meets the intent of the scope/criteria contained in Air Force Handbook 32-1084, "Facility Requirements." A preliminary study was conducted comparing alternatives of status quo, renovation, and new construction. It indicates that new construction is the only option that will meet operational requirements. A certificate of exception was prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c), and other applicable laws and Executive orders. BASE CIVIL ENGINEER: Lt Col Ardyce Clements, COMM 210-671-2977. Visitor's Reception/ Aministrative: 3,051 SM = 32,829 SF; Auditorum/Recruit Mass Briefing: 3,480 SM = 37,445 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LACKLAND AIR FORCE BASE, TEXAS	RECRUIT/FAMILY INPROCESSING & INFORMATION CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
84711	171-627	MPLS093737V	21,800

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 654

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 13 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 APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	2012	200
ADPE	3400	2012	20

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
HILL AIR FORCE BASE	AIR FORCE MATERIEL	COST INDEX
UTAH	COMMAND:	1.03

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	333	1,274	10,161	0	0	0	192	2243	205	14,408
END FY 2015	314	1,248	10,059	0	0	0	187	2234	206	14,248

7. INVENTORY DATA ($000)		
Total Acreage:	6,797	
Inventory Total as of : (30 Sep 09)		4,322,858
Authorization Not Yet in Inventory:		157,600
Authorization Requested in this Program:		2,800
Planned in Next Four Years Program:		47,600
Remaining Deficiency:		361,500
Grand Total:		4,892,358

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
166-665	F-22 T-10 Engine Test Cell	4,000	SM	2,800	Design Build	
		Total		2,800		

9a. Future Projects: Typical Planned Next Four Years:

216-642	649 MUNS Munitions STAMP/M&I Facility	3,716	SM	16,500
211-153	Robotic NDI Facility, Phase 1	1	LS	16,400
214-425	Consolidated Transportation Facility, phase I	1,500	SM	7,300
442-264	Munitions Storage Igloos	1,158	SM	7,400
		Total		47,600

9b. Real Propery Maintenance Backlog This Installation: ($M)	138.9

10. Mission or Major Functions: Hill Air Force Base is home to many operational and support missions with Ogden Air Logisitics Center (OO-ALC) serving as host organization. The center provides world wide engineering and logistics management for the F-16 Fighting Falcon, A-10 Thunderbolt II, Minuteman III intercontinental ballistic missile. The base performs depot maintenance for F-16, C-130, and F-22 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

DD Form 1390, 24 Jul 00

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE, UTAH	F-22 T-10 ENGINE TEST CELL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27138	116-665	KRSM073002	2,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				1,276
TEST CELL FOUNDATION	SM	4,000	310	(1,240)
SDD & EPACT05	LS			(24)
ANTITERRORISM/FORCE PROTECTION	LS			(12)
SUPPORTING FACILITIES				1,160
UTILITIES	LS			(560)
PAVEMENTS	LS			(450)
SITE IMPROVEMENTS	LS			(150)
SUBTOTAL				2,436
CONTINGENCY (5.0%)				122
TOTAL CONTRACT COST				2,558
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				146
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				97
TOTAL REQUEST				2,801
TOTAL REQUEST (ROUNDED)				2,800)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(5,000

10. Description of Proposed Construction: Construct a concrete foundation and slab for a T-10 type Engine Test Cell Hush House. The project will include the concrete pad, access pavements, all required utilities, and necessary site work. Comply with DoD force protection requirements per Unified Facilities Criteria.

Air Conditioning: 0 Tons

11. Requirement: 4000 SM Adequate: 0 SM Substandard: 9830 SM

PROJECT: F-22, T-10 Engine Test Cell. (New Mission)

REQUIREMENT: An F-22, T-10 Engine Test Cell Hush House is required to certify a prescribed engine performance standard for each F-22 aircraft sent to Hill AFB for scheduled Depot Repair or Modification (DRM). Hill AFB has been designated as the Air Force Center of Industrial Excellence for composite aircraft workload and began accepting seven F-22 aircraft per year for DRM since 2007. This number is expected to increase to 64 per year by 2013. The Test Cell Hush House will house a full size F-22 aircraft. In order to maximize process efficiencies and to prevent interruption of flight line operations, this facility must be collocated with other F-22 facilities proposed to be located on the East side of the runway.

CURRENT SITUATION: Currently, legacy aircraft engine testing for the F-16 and A-10 is accomplished in existing test cells or in various T-10 type Hush House test cells scattered across Hill AFB. Of the existing T-10 engine test cells at Hill AFB, only one has been retrofitted to be able to perform dual F-22 engine testing and legacy aircraft testing. This test cell is 95% utilized by an active F-16 Fighter Wing, which severly limits F-22 access to the facility. Sharing the test cell with F-22 aircraft also causes delays in legacy aircraft workloads.

IMPACT IF NOT PROVIDED: Without this facility Hill AFB will be severely limited in its ability to certify F-22 engine performance. This will result in delays in workload schedules and could result in late deliveries of F-22 aircraft back to their home units. This, in turn, could affect mission readiness among the F-22

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE, UTAH	F-22 T-10 ENGINE TEST CELL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27138	116-665	KRSM073002	2,800

home units. Towing aircraft back and forth from the proposed F-22 depot maintenance complex on the East side of the runway to the existing retrofitted test cell on the West side of the runway will interrupt flight line operations. Legacy aircraft engine test workloads will continue to suffer delays due to sharing the retrofitted engine test cell with the F-22 workload.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An economic analysis has been prepared comparing the alteratives of status quo, new construction, and renovation. New construction was found to be the most cost efficient over the life of the project. Sustainable principles, to include Life Cycle Cost-Effective practices will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable lws and Executive Orders. Base Civil Engineer: Col. Harry Briesmaster III, (801) 777-7505. Test Cell Foundation: 4,000 SM = 43,056 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.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH	4. PROJECT TITLE F-22 T-10 ENGINE TEST CELL	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27138	116-665	KRSM073002	2,800

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 84

(4) Construction Contract Award 11 JAN

(5) Construction Start 11 FEB

(6) Construction Completion 11 DEC

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
HUSH HOUSE	3010	2010	5,000

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA	4. COMMAND: AIR COMBAT COMMAND	5. AREA CONST COST INDEX 0.97

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
AS OF 30 SEP 09	2253	7361	3589	0	2	0	0	0	306	13,511
END FY 2015	2161	7111	3469	0	2	0	0	0	306	13,049

7. INVENTORY DATA ($000)

a. Total Acreage:	3,168	
b. Inventory Total as of : (30 Sep 09)		3,735,796
c. Authorization Not Yet in Inventory:		57,700
d. Authorization Requested in this Program:		8,800
e. Planned in Next Four Years Program:		74,600
f. Remaining Deficiency:		101,000
g. Grand Total:		3,977,896

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
211-111	F-22 Add/Alter Hangar Bay LO/CR Facility	1,205	SM	8,800	DESIGN	BUILD
		Total		8,800		

9a. Future Projects: Typical Planned Next Four Years:

100-001	Joint Base Langley-Eustis	TBD		50,000
211-179	Fuel Systems Maintenance Dock	4,503	SM	24,600
		Total		74,600

9b. Real Property Maintenance Backlog This Installation: ($M) 84

10. Mission or Major Functions: Headquarters Air Combat Command; a fighter wing with F-22A and F-15 fighters; an airlift flight; an intelligence group; Aerospace Command and Control Intelligence, Surveillance and Reconnaissance Center (AC2ISRC), Detachment of the USAF Doctrine Center; and the Air Force Rescue Coordination 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	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LANGLEY AIR FORCE BASE, VIRGINIA	F-22 ADD/ALTER HANGAR BAY LO/CR FACILITY - TFI

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27138	211-111	MUHJ063017	8,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				4,232
LO/CR BAY ADDITION	SM	1,205	3,230	(3,892)
LO/CR FACILITY ALTERATION	LS			(225)
SDD & EPACT 05	SM	1,205	63	(76)
ANTITERRORISM/FORCE PROTECTION	SM	1,205	32	(39)
SUPPORTING FACILITIES				3,423
UTILITIES	LS			(75)
PAVEMENTS	LS			(273)
SITE IMPROVEMENT	LS			(230)
PAINT BOOTH	LS			(2,600)
SOIL REMEDIATION	LS			(200)
COMMUNICATION SUPPORT	LS			(45)
SUBTOTAL				7,655
CONTINGENCY (5.0%)				383
TOTAL CONTRACT COST				8,037
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				458
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				306
TOTAL REQUEST				8,802
TOTAL REQUEST (ROUNDED)				8,800)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(100

10. Description of Proposed Construction: Add a third F-22 Low Observable (LO) maintenance bay and shop space with concrete floor slab, special pile foundations, steel structure, standing seam metal roof, steel sheet and masonry siding, utilities, site improvements, minimal alterations to existing facility, install paint booth, remediate fuel contaminated soil and all other necessary support. This project will comply with antiterrorism/force protection requirements identified in DoD Unified Facilities Criteria.

11. Requirement: 5155 SM Adequate: 3950 SM Substandard: 0 SM

PROJECT: F-22A Add/Alter Hangar Bay LO/CR Facility. (New Mission)

REQUIREMENT: A third maintenance bay is needed to meet increased Low Observable restoration requirements when Packaged Maintenance Plan (PMP) inspections become more extensive after 900 Flight Hours and beyond. Space requirements are determined by Lockheed Martin/Boeing Facilities Requirement Plan dated Nov 2007. The facility will provide hangar bay space for the paint booth, and shop space for inspection and restoration of aircraft surfaces, and daily workflow.

CURRENT SITUATION: The existing Low Observable (LO) repair facility has two bays that operate at a 97% usage rate and cannot handle an increased LO repair load as the aircraft matures and PMP inspections become more extensive. After PMP inspections, spray application of LO coatings is necessary to maintain Radar Countermeasures System (RCS) margin. All spray application LO repair processes must be completed in an environmentally controlled facility. There are no excess

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA	4. PROJECT TITLE F-22 ADD/ALTER HANGAR BAY LO/CR FACILITY - TFI	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27138	211-111	MUHJ063017	8,800

hangars that can be converted to meet this requirement. Existing hangars throughout the flightline area are essential aircraft maintenance hangars utilized at their full capacity.

IMPACT IF NOT PROVIDED: PMP driven increase of on-plane LO spray repairs will not be possible for the F-22 without this facility. More brush-roll repairs will be accomplished, limiting the extent and conditions for making repairs and reducing the RCS maintenance margin. Sortie generation and training utilization rates will be greatly reduced, therefore impairing mission capability.

ADDITIONAL: This project meets the scope/criteria specified in Air Force Handbook 32-1084, "Facility Requirements" and the Nov 2007 F-22A Facilities Requirements Plan. An analysis of reasonable options for accomplishing this project (status quo, new construction, renovation) was done. Add/alter was found to be the most cost efficient over the life of the project. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2808 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Jeffrey R. Ullman, 757-764-2025. (Addition to LO/CRF Facility: 1,205 SM = 12,955 SF)

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components. This project supports Total Force Integration initiatives.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LANGLEY AIR FORCE BASE, VIRGINIA	F-22 ADD/ALTER HANGAR BAY LO/CR FACILITY - TFI

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27138	211-111	MUHJ063017	8,800

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 264

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 MAR

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	70
FURNISHINGS	3400	2011	30

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
CAMP GUERNSEY	AIR FORCE SPACE	COST INDEX
WYOMING	COMMAND	1.01

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 09	2	37	2	138	1587	0	0	0	0	1,766
END FY 2015	2	37	2	138	1587	0	0	0	0	1,766

7. INVENTORY DATA ($000)

Total Acreage: 63,775	
Inventory Total as of : (30 Sep 09)	0
Authorization Not Yet in Inventory:	0
Authorization Requested in this Program:	4,650
Planned in Next Four Years Program:	0
Remaining Deficiency:	0
Grand Total:	4,650

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
171-476	Nuclr Space Security Tactics Trng Ctr	1,334	SM	4,650	DESIGN-BUILD	
		Total		4,650		

9a. Future Projects: Typical Planned Next Four Years:
None

9b. Real Property Maintenance Backlog This Installation: ($M) 0

10. Mission or Major Functions: The 90th Ground Combat Training Squadron at Camp Guernsey WY ensures Air Force Space Command's forces are prepared to aggressively defend U. S. Air Force personnel and resources at home and abroad. 90 GCTS ensures Air Force Space Command's security forces are prepared by conducting pre-deployment training for the command's security forces and by developing and training new tactics, techniques and procedures for nuclear and space systems security. Annual student throughput is 1725.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CAMP GUERNSEY, WYOMING	NUCLEAR/SPACE SECURITY TACTICS TRAINING CENTER (NSSTTC)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31476	171-476	AFSPC053012	4,650

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				3,077
NUCLEAR SPACE SECURITY TACTICS TRAINING CTR	SM	1,334	2,204	(2,940)
ANTITERRORISM/FORCE PROTECTION	LS			(29)
INTERIOR COMMUNICATIONS SUPPORT	LS			(58)
SDD & EPACT05	LS			(50)
SUPPORTING FACILITIES				964
SITE IMPROVEMENTS	LS			(175)
PAVEMENTS	LS			(150)
UTILITIES	LS			(275)
COMMUNICATIONS	LS			(160)
EMERGENCY GENERATOR POWER (1) 15KW	LS			(41)
PASSIVE FORCE PROTECTION	LS			(163)
SUBTOTAL				4,041
CONTINGENCY (5.0%)				202
TOTAL CONTRACT COST				4,243
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				242
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				162
TOTAL REQUEST				4,647
TOTAL REQUEST (ROUNDED)				4,650)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(100

10. Description of Proposed Construction: A pre-engineered metal structure consisting of a reinforced concrete foundation system, metal studs, sloped steel roof, heating and air conditioning, fire suppression system, paved parking, and communications support. Provides program and unit administrative space, weapons maintenance space, an Alarmed Weapons and Ammunition Storage Room (armory), latrine facilities, and miscellaneous range equipment storage. Includes removal of existing storage, parking, perimeter fence to accomodate new NSTTC, and clear, gravel, and install new chain link perimeter fencing for 1.8 acres of additional storage parking adjacent to an existing storage facility southeast on the new NSTTC site. Complies with DoD force protection requirements per Unified Facilities Criteria.

Air Conditioning: 26 Tons

11. Requirement: 1334 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Nuclear Space Security Tactical Training Center (NSSTTC). (Current Mission)

REQUIREMENT: A facility of proper size and configuration that provides sufficient administrative, classroom, armory, briefing, equipment/munitions storage, and other workspaces to effectively carry out NSSTTC operations. A new facility that allows for comprehensive and periodic training of security and augmentee forces that guard nuclear weaponry during convoy deployment. A facility that will enhance the following aspects of live-fire training: ICBM convoy operations, nuclear weapons

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CAMP GUERNSEY, WYOMING	NUCLEAR/SPACE SECURITY TACTICS TRAINING CENTER (NSSTTC)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31476	171-476	AFSPC053012	4,650

security and recapture tactics, and marksmanship utilizing various small arms and vehicle-mounted weaponry. A NSSTTC in a proper location that allows many and varied training scenarios be possible for effective training. A NSSTTC at a location that has accessible lodging, dining, and transportation facilities available for use by security personnel from all 20th Air Force ICBM bases as well as local Army and Air Guard Units, as necessary. In this case, that location is the Army National Guard Base, Guernsey, Wyoming.

CURRENT SITUATION: At this time, no facility exists in this geographic area to accommodate the type of training that has become mandated by the Executive memorandum regarding nuclear command and control systems. This Executive direction includes the enhancement of training for those charged with guard duties when escorting nuclear weapon shipments to and from remote launch sites. Although Air Force security personnel receive periodic training on the use of small and larger caliber weapons, little training can be conducted on the employment of ICBM convoy security and recapture tactics. This type of training requires a wide expanse of varying land contours, topography, and roadway configurations. This type of training also requires that support facilities be available for administrative and indoor equipment/vehicle storage. These facilities and the expansive ranges do not currently exist on F. E. Warren AFB. These facilities can be accommodated at Camp Guernsey--an Army National Guard Base located in Guernsey, Wyoming.

IMPACT IF NOT PROVIDED: If not provided, valuable and necessary tactical and weapons employment training cannot be offered to nuclear weapons security force personnel. The mandates of the Exective Memorandum will not be instituted and the majority of the Nation's ICBM weapons and delivery vehicle convoys will remain at higher risk of compromise by terorists or other entities.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook, 32-1084, "Facility Requirements." This project is in compliance with the Inter-service Support Agreement (ISSA) between Wyoming Army National Guard, Air Force Space Command, and 90th Space Wing, F. E. Warren AFB, WY. An analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction, leasing) was done. It indicates there is only one option that will meet the operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Sustainable principles to include Life Cycle Cost-Effective practices will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (2), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Michael Geer, (307) 773-3600. (Nuclear/Space Security Tactics Training Center (NSTTC) 1,334 SM = 14,359 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CAMP GUERNSEY, WYOMING	NUCLEAR/SPACE SECURITY TACTICS TRAINING CENTER (NSSTTC)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31476	171-476	AFSPC053012	4,650

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 140

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 12 APR

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS AND EQUIPMENT	3400	2012	100

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
UNSPECIFIED LOCATION, UNKNOWN	F-35 ACADEMIC TRAINING CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	NUEX093000	54,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				37,829
FLIGHT SIMULATOR TRAINING	SM	7,814	3,090	(24,141)
PILOT ACADEMIC TNG CLASSROOMS	SM	5,675	2,218	(12,586)
ANTITERRORISM/FORCE PROTECTION	LS			(367)
SDD EPACT 05	LS			(734)
SUPPORTING FACILITIES				10,959
UTILITIES	LS			(3,070)
PAVEMENTS	LS			(2,368)
SITE IMPROVEMENTS	LS			(1,859)
COMMUNICATION REQUIREMENTS	LS			(1,327)
DEMOLITION AND RELOCATION	SM	4,565	512	(2,335)
SUBTOTAL				48,788
CONTINGENCY (5.0%)				2,439
TOTAL CONTRACT COST				51,227
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				2,920
TOTAL REQUEST				54,147
TOTAL REQUEST (ROUNDED)				54,150
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(244,899.0)

10. Description of Proposed Construction: Construct a multi-story sprinkler-equipped facility consisting of a concrete foundation, tilt-up construction (split-faced concrete block over steel frame), and sloped standing seam metal roof along with site improvements. Demolishes and relocates functions in two buildings (4,565 SM). Functional areas include training classrooms, simulator rooms, administrative support space, general storage, mechanical, electric equipment and communications, fire protection, utilities, and parking. Comply with the Special Access Program Facility (SAPF) security specifications and DoD force protection requirements per unified facilities criteria.

Air Conditioning: 50 Tons

11. Requirement: 24741 SM Adequate: 11252 SM Substandard: 0 SM

PROJECT: F-35 Academic Training Center. (New Mission)

REQUIREMENT: An Academic Training Center (ATC) is required to beddown the Joint Strike Fighter (JSF) F-35 aircraft scheduled for arrival beginning in April 2013. This facility will provide academic training for 5 flying squadrons. It contains pilot academic training classrooms and virtual trainers (all non-deployable training components), as well as administrative/operations, instructor, and engineering personnel needed to conduct initial and replenishment training of pilot personnel. Training in the ATC will be accomplished using instructor-led classroom activities, independent study via Interactive Courseware Workstations (ICW), and training in virtual simulators. Training devices and courseware associated with the ATC's training system will be maintained and upgraded by a Training System Support Center (TSSC) organization resident in the ATC.

CURRENT SITUATION: The installations being considered do not have facilities with required security and space available to support the Academic Training Center for

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION UNSPECIFIED LOCATION, UNKNOWN	4. PROJECT TITLE F-35 ACADEMIC TRAINING CENTER	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	NUEX093000	54,150

the Joint Strike Fighter.

IMPACT IF NOT PROVIDED: Without this project in FY2011, the F-35 beddown will be disjointed. Current plans and schedule has the F-35 aircraft arriving at the second training location in April 2013. Without this facility, training will not be able to begin, and the Air Force will not be able to train sufficient pilots to man the F-35 aircraft.

ADDITIONAL: The criteria/scope for this project is contained in the Joint Strike Fighter Facility Requirements Document (FRD) developed by the Lockheed Martin Aeronautics Company, and was determined in consultations with Lockheed Martin. A preliminary analysis of reasonable options was accomplished comparing alternatives of status quo, renovation, addition/alteration, and new construction. It indicates the only option that will meet operational requirements is the new construction. A Certificate of Exception for Economic Analysis is being processed. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. MAJCOM POC: Ms Barbara Gunter, 210-652-8229. F-35 Flight Simulator Training: 7,814 SM = 84,079 SF; F-35 Pilot Academic Training Classrooms: 5,675 SM = 61,063 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
UNSPECIFIED LOCATION, UNKNOWN	F-35 ACADEMIC TRAINING CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	NUEX093000	54,150

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	27-JUL-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	29-JAN-10
(e) Date Design Complete	30-SEP-10
(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	3,249
(b) All Other Design Costs	1,625
(c) Total	4,874
(d) Contract	4,062
(e) In-house	812
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 APR
(6) Construction Completion	13 APR

* 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)
EQUIPMENT/FURNITURE	3400	2013	4,899
4 SIMULATORS	3080	2011	80,000
2 SIMULATORS	3080	2012	40,000
2 SIMULATORS	3080	2013	40,000
4 SIMULATORS	3080	2014	80,000

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
UNSPECIFIED LOCATION, UNKNOWN	F-35 SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	141-753	NUEX093001	10,260

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				7,206
SQUADRON OPERATIONS	SM	2,070	3,390	(7,017)
ANTITERRORISM/FORCE PROTECTION	LS			(63)
SDD EPACT 05	LS			(126)
SUPPORTING FACILITIES				2,031
UTILITIES	LS			(920)
PAVEMENTS	LS			(480)
SITE IMPROVEMENTS	LS			(380)
COMMUNICATION REQUIREMENTS	LS			(200)
DEMOLITION	SM	383	131	(50)
SUBTOTAL				9,237
CONTINGENCY (5.0%)				462
TOTAL CONTRACT COST				9,699
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				553
TOTAL REQUEST				10,252
TOTAL REQUEST (ROUNDED)				10,260
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(735.0)

10. Description of Proposed Construction: Sprinkler equipped facility consisting of a concrete foundation, masonry block, and sloped, standing seam metal roof. Squadron operations area will include flight planning, air crew briefing/debriefing, and training in a secure environment; administration, and storage and issue of flight crew life support system equipment. Also includes general storage, mechanical, electric equipment and communications, fire protection, utilities, and parking. Demolish two buildings (383 SM). Comply with SAPF security specifications and DoD force protection requirements per applicable regulations.

Air Conditioning: 50 Tons

11. Requirement: 2070 SM Adequate: 0 SM Substandard: 1116 SM

PROJECT: F-35 Squadron Operations facility. (New Mission)

REQUIREMENT: A Squadron Operations facility is required to support the beddown for the Joint Strike Fighter (JSF) F-35 aircraft scheduled for arrival beginning in April 2013. The facility is required to support the operations, debriefing, training and administration of the squadron. Space must be provided for the storage and issue of flight crew life support system equipment and personal space is required for changing into and out of flight clothing. This facility will provide adequate area for equipment and administrative spaces required to support the mission of the particular squadron or activity occupying them.

CURRENT SITUATION: The installations being considered lack adequate facilities to conduct squadron level operation for the F-35 mission. Existing operational squadrons are required to work, train, deploy, and fight as independent squadrons. Existing facilities are undersized and are not configured properly to support the JSF training and security needs.

IMPACT IF NOT PROVIDED: Without this project being executed in 2011, the F-35

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION UNSPECIFIED LOCATION, UNKNOWN	4. PROJECT TITLE F-35 SQUADRON OPERATIONS FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	141-753	NUEX093001	10,260

program beddown cannot be effectively and efficiently implemented. Work arounds would have a significantly negative impact on the training mission, and could not meet the security requirements to support the F-35 program.

ADDITIONAL: The criteria/scope for this project is contained in the JSF Facility Requirements Document (FRD) developed by the Lockheed Martin Aeronautics Company. As a new weapon system, AFH 32-1084 does not adequately address the operational, training, and security requirements of the F-35 training mission. However, the size is similar to an F-22 squadron operations facility as identified in HQ AETC Squadron Operations/Aircraft Maintenance Unit Standards. A preliminary analysis of reasonable options was accomplished comparing alternatives of status quo, renovation, addition/alteration, and new construction. It indicates the most cost effective action for immediate beddown that will meet operational requirements is an addition/alteration of an existing facility. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. MAJCOM POC: Ms Barbara Gunter, (210) 652-8229. F-35 Squadron Operations Facility Addition: 950 SM = 10,222 SF; F-35 Squadron Operations Facility Renovation: 1120 SM = 12,051 SF.

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

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
UNSPECIFIED LOCATION, UNKNOWN	F-35 SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	141-753	NUEX093001	10,260

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	27-JUL-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	29-JAN-10
(e) Date Design Complete	30-SEP-10
(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	616
(b) All Other Design Costs	308
(c) Total	924
(d) Contract	770
(e) In-house	154
(4) Construction Contract Award	**11 FEB**
(5) Construction Start	**11 APR**
(6) Construction Completion	**12 OCT**

* 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)
EQUIPMENT/FURNITURE	3400	2011	735

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
UNSPECIFIED LOCATION, UNKNOWN	F-35 FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	KRSM113017	12,190

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				9,024
F-35A FLIGHT SIMULATOR FACILITY	SM	2,754	3,181	(8,760)
SDD & EPACT 05	LS			(176)
ANTITERRORISM/FORCE PROTECTION	LS			(88)
SUPPORTING FACILITIES				1,575
UTILITIES	LS			(490)
PAVEMENTS	LS			(290)
SITE IMPROVEMENTS	LS			(260)
COMMUNICATION SUPPORT	LS			(285)
SPECIAL HVAC REQUIREMENTS	LS			(250)
SUBTOTAL				10,599
CONTINGENCY (5.0%)				530
TOTAL CONTRACT COST				11,129
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				634
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				424
TOTAL REQUEST				12,188
TOTAL REQUEST (ROUNDED)				12,190)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(120,650

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, masonry walls, standing seam metal roof, fire detection/protection, special security enhancements, utilities, pavements, site improvements, landscaping, communication support and all other necessary work as required. This project will comply with antiterrorism/force protection requirements identified in DoD Unified Facilities Criteria.

Air Conditioning: 135 Tons

11. Requirement: 3794 SM Adequate: 1040 SM Substandard: 0 SM

PROJECT: F-35 Flight Simulator Facility. (New Mission)

REQUIREMENT: The Air Force has not designated a base to receive the first operational squadron of F-35A fighter aircraft. The first aircraft is scheduled for delivery in FY13/1Q with a full squadron on station by the end of the fiscal year. The final two squadrons will arrive before the end of FY15. An adequately sized and configured flight simulator facility is required to support F-35A operational test and evaluation, and tactics development for all pilots assigned to the three squadrons of 24 aircraft. This facility will provide space for simulator bays, conference room with tiered seating, brief/debrief rooms, a classified server room, locker and restroom space, offices and storage space for F-35A pilot flight simulator training. Simulator rooms require a raised computer floor and all mechancial and electrical services as per AF guidelines. Simulator training facility must comply with security requirements unique to the F-35A. Provide an HVAC system that is able to maintain a constant temperature environment for sensitive computational equipment. Provide intrusion detection and fire detection/suppression systems as per F-35A simulator training facility requirements. Design requirements shall include AFOSH Standard 127-118, ETL 93-5,

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
UNSPECIFIED LOCATION, UNKNOWN	F-35 FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	KRSM113017	12,190

and JAFAN 6/9 as a minimum.

CURRENT SITUATION: There are insufficient facilities at the installations under consideration to support this mission beddown. All facilities that currently accomodate flight simulators are at capacity supporting existing aircraft.

IMPACT IF NOT PROVIDED: The installations under consideration will not be able to provide F-35A simulation training to assigned aircrews. Aircrews will need to travel to other sites that have a training facility in the interim. However, without aircrew certification, the crews could be grounded and not able to deploy if necessary.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084 "Facility Requirements" and the F-35A Facility Requirements Plan. An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) was done. It indicates that new construction is the only option that meets operational requirements. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of this project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. MAJCOM POC: Bruce MacDonald, 757-764-3276. (F-35A Flight Simulator Facility: 2,754 SM = 29,642 SF).

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION UNSPECIFIED LOCATION, UNKNOWN	4. PROJECT TITLE F-35 FLIGHT SIMULATOR FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	KRSM113017	12,190

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 366

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 MAR

(6) Construction Completion 13 MAR

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	500
FURNISHINGS	3400	2011	150
FLIGHT SIMULATOR (4)	3080	2011	80,000
FLIGHT SIMULATOR (2)	3080	2011	40,000

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
BAGRAM AB, AFGHANISTAN	AIR COMBAT COMMAND (AFCENT)	1.41

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	EN	CIV	OFF	ENL	CIV	TOTAL
AS OF	CLASSIFIED DATA									Note 1
END FY 2010	CLASSIFIED DATA									

7. INVENTORY DATA ($000)

a. Total Acreage:	n/a
b. Inventory Total as of : (30 Sep 09)	n/a
c. Authorization Not Yet in Inventory:	n/a
d. Authorization Requested in this Program:	42,960
f. Planned in Next Four Years Program:	0
g. Remaining Deficiency:	
h. Grand Total:	42,960

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-232	Consolidated Rigging Facility	3,140	SM	9,900	Jun-09	Sep-10
211-152	Fighter Hangar	3,400	SM	16,480	Jun-09	Sep-10
113-321	MEDEVAC Ramp Expan/Fire Station	10,505	SM	16,580	Jun-09	Sep-10
				42,960		

9a. Future Projects: Typical Planned Next Four Years:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000
Unknown at this time			

9b. Real Property Maintenance Backlog This Installation: n/a

10. Mission or Major Functions: 455 Air Expeditionary Wing - a multi-purpose wing that supports a range of missions to include: fighter, airlift, refueling, intelligence, surveillance and reconnaissance.

NOTE 1: Personnel numbers at a contingency location are classified, therefore not provided.

11. Outstanding Pollution and Safety (OSHA Deficiencies):
- a. Air pollution
- b. Water Pollution
- c. Occupational Safety and Health
- d. Other Environmental

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BAGRAM AB, AFGHANISTAN	CONSOLIDATED RIGGING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	100-232	ATUH110101	9,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				7,454
RIGGING FACILITY	SM	3,140	2,305	(7,238)
SDD/EPACT 05	LS			(144)
ANTI-TERRORISM/FORCE PROGECTION	LS			(72)
SUPPORTING FACILITIES				1,302
UTILITIES	LS			(350)
SITE IMPROVEMENTS	LS			(160)
DEMO PAVEMENTS	LS			(130)
DEMOLISH EXISTING FACILITIES	SM	1,904	26	(50)
COMMUNICATION SUPPORT	LS			(162)
COVERED STORAGE	LS			(200)
PAVEMENTS	LS			(250)
SUBTOTAL				8,755
CONTINGENCY (5.0%)				438
TOTAL CONTRACT COST				9,193
SUPERVISION, INSPECTION AND OVERHEAD (7.7%)				708
TOTAL REQUEST				9,901
TOTAL REQUEST (ROUNDED)				9,900
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(40.0)

10. Description of Proposed Construction: Construct Consolidated Rigging Facility. Construction will include concrete foundation and floor slab, structural steel frame, masonry walls and sloping metal roof. Project includes heating, ventilation, air conditioning, electrical, water, communication, fire suppression, removal of existing concrete and earth as required, relocation of rigging equipment and all necessary support to provide a complete and usable facility. Demolish existing facilities for a total of 1,904 SM. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 40 Tons

11. Requirement: 3140 SM Adequate: 0 SM Substandard: 1904 SM

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

REQUIREMENT: Provide an adequate facility that combines all rigging operations to support airdrop operations originating from Bagram Air Base. The bundles prepared by the riggers are secured to allow the Coalition forces to sustain heavy ground operations.

CURRENT SITUATION: The rigging operations originating from Bagram are conducted in four facilities totaling 1,904 SM. The existing facilities provide only one half of the space required to adequately and efficiently conduct rigging operations. Vehicles tasked to deliver cargo to the aircraft often report to the wrong facilty to pick up bundles. This causes excessive mission delays, as the different rigging facilities are spread throughout the length of the airfield. The current rigging facilities do not allow the operation of parachutes and the operation of rigging bundles to happen simultaneously. Only one operation can happen at a time,

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BAGRAM AB, AFGHANISTAN	4. PROJECT TITLE CONSOLIDATED RIGGING FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	100-232	ATUH110101	9,900

reducing the productivity of overall rigging operations. Often rigging facilities ask each other for help during peak times. Currently, parachute maintenance can not be carried out inside the facilities. There are wooden towers built to perform this operation. There is a significant lack of storage space for each operation. There are currently about 20,000 cardboard airdrop containers stored in open storage exposed to the elements. About 30% of these materials are lost before they can be used. Nearly 25% of each facility is used to store contingency bundles, taking up valuable space inside each rigging facility. The consolidation of all rigging operations into one facility will increase the operational flexibility, the ability to handle surges, and will drastically reduce delays. The bundles originating from this facility support 21 Forward Operating Bases throughout Afghanistan. Several bundles have failed to deploy their parachutes because of damaged or incorrectly prepared rigging. Equipment and supplies are stored in CONEX boxes out in front of the facilities. Larger bundles are constantly being damaged by objects in the over crowded yard. Equipment and supplies are also stored outside and are exposed to the extreme climates at Bagram. There is not adequate space to efficiently stretch out, inspect and repair parachutes.

IMPACT IF NOT PROVIDED: Equipment and supplies will continue to be stored in CONEX boxes in front of the facility, effectively reducing outside workspace by 60 percent. Rigging professionals will continue to operate in a very tight, overcrowded space. This inefficiency will negatively affect the quality of bundles prepared. Critical materials and equipment will continue to deteriorate prematurely from outside storage. Rigging operations will continue to happen outside of the facility, thus reducing the productivity of the riggers during temperature extremes experienced at Bagram. The quality of parachute inspection and repair will continue to be substandard. The vital airdrops will be adversely impacted, which in turn will degrade the quality of operations conducted in Overseas Contingency Operations.

ADDITIONAL: This project meets the criteria/scope specified in the Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status quo, new construction) was completed. It indicates there is only one option that will meet operational requirements; new construction. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into design, development, and construction of the projects in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Civil Engineer: Maj Brian Stahl; DSN 318-431-4410: (Consolidated Rigging Facility: 3,140 SM = 33,800 SF)
A NATO pre-financing statement (PFS) will be submitted for this project prior to award.

JOINT USE CERTIFICATION: These facilities 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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BAGRAM AB, AFGHANISTAN	CONSOLIDATED RIGGING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	100-232	ATUH110101	9,900

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	01-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	594
(b) All Other Design Costs	297
(c) Total	891
(d) Contract	644
(e) In-house	247
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	25
FURNISHINGS	3400	2011	15

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BAGRAM AB, AFGHANISTAN	FIGHTER HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-152	ATUH110104	16,480

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				11,014
HIGH BAY AIRCRAFT HANGAR	SM	3,400	3,145	(10,693)
SDD EPACT 05	LS			(214)
ANTI-TERRORISM/FORCE PROTECTION	LS			(107)
SUPPORTING FACILITIES				3,558
PAVEMENTS	LS			(910)
SITE IMPROVEMENTS	LS			(350)
COMMUNICATION SYSTEM	LS			(60)
TEMPORARY BUILDING	LS			(500)
DEMO PAVEMENTS	LS			(200)
DEMOLISH EXISTING FACILITIES	SM	232	215	(50)
COMMUNICATION SUPPORT	LS			(120)
UTILITIES	LS			(1,368)
SUBTOTAL				14,572
CONTINGENCY (5.0%)				729
TOTAL CONTRACT COST				15,300
SUPERVISION, INSPECTION AND OVERHEAD (7.7%)				1,178
TOTAL REQUEST				16,479
TOTAL REQUEST (ROUNDED)				16,480
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(40.0)

10. Description of Proposed Construction: Construct High Bay Aircraft Maintenance Hangar. Construction will include concrete foundation and floor slab, structural steel frame, masonry walls and sloping metal roof. Project includes heating, ventilation, and air conditioning, fire suppression, removal of existing concrete and earth, relocation of aircraft repair equipment and all necessary support to produce a complete and usable facility. Demolish existing facilities for a total of 232 SM. Provide common utilities. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 70 Tons

11. Requirement: 3400 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Fighter Hangar. (Current Mission)

REQUIREMENT: Provide an adequate facility to inspect, repair, maintain and store aircraft and parts for both A-10 and F-15 aircraft maintenance operations. This facility is required to house various flights of the 455th Expeditionary Maintenance Group which perform disassembly, inspection, repair and storage of aircraft and their components used to support Combat Air Support operations throughout Afghanistan. Provide temporary shop space for functions displaced by the construction of this hangar.

CURRENT SITUATION: Maintenance operations for fighter aircraft are being conducted in four Large Aircraft Maintenance Shelters (LAMS) spread across Bagram Air Base. The current facilities are beginning to deteriorate and need to be replaced with adequate facilities. There are two LAMS on the east side and two LAMS on the west

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BAGRAM AB, AFGHANISTAN	FIGHTER HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-152	ATUH110104	16,480

side of Bagram Air Base (BAB). The average time that an aircraft is down for maintenance is elevated because maintainers have to tow aircraft to various locations on BAB. Increased fighter aircraft down time degrades the quality and quantity of Combat Air Support based at BAB. Fighter aircraft parts and equipment are stored out in the open at various locations on BAB decreasing the lifespan of the parts and degrading the quality.

IMPACT IF NOT PROVIDED: Mission critical aircraft will continue to experience extended maintenance down time. Aircraft parts and equipment will continue to deteriorate from being exposed to extreme temperatures. The existing facilities will deteriorate and become unusable as maintenance hangars. The overall Combat Air Support mission will be degraded and will hinder the effectiveness of Coalition forces to conduct the Overseas Contingency Operations.

ADDITIONAL: This project meets the criteria/scope specified in the Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status quo, new construction) was completed. It indicates there is only one option that will meet operational requirements; new construction. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into design, development, and construction of the projects in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Civil Engineer: Maj Brian Stahl; DSN 318-431-4410: (Fighter Hangar: 3,400 SM = 36,597 SF)
A NATO pre-financing statement (PFS) will be submitted for this project prior to award.

JOINT USE CERTIFICATION: These facilities 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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BAGRAM AB, AFGHANISTAN	FIGHTER HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-152	ATUH110104	16,480

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	01-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	989
(b) All Other Design Costs	494
(c) Total	1,483
(d) Contract	1,089
(e) In-house	394
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	25
FURNISHINGS	3400	2011	15

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BAGRAM AB, AFGHANISTAN	MEDEVAC RAMP EXPANSION/ FIRE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	ATUH110103	16,580

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				13,502
CONCRETE APRON	SM	6,905	350	(2,417)
FIRE STATION	SM	3,600	2,970	(10,692)
SDD & EPACT 05	LS			(262)
ANTITERRORISM/FORCE PROTECTION	LS			(131)
SUPPORTING FACILITIES				1,160
UTILITIES	LS			(500)
ASPHALT ROAD	LS			(150)
DEMOLISH TEMPORARY FIRE STATION	LS			(190)
COMMUNICATION SUPPORT	LS			(320)
SUBTOTAL				14,662
CONTINGENCY (5.0%)				733
TOTAL CONTRACT COST				15,395
SUPERVISION, INSPECTION AND OVERHEAD (7.7%)				1,185
TOTAL REQUEST				16,580
TOTAL REQUEST (ROUNDED)				16,580
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(290.0)

10. Description of Proposed Construction: Construct a medium load Portland cement concrete addition to the Medical Evacuation (MEDEVAC) Ramp and a new Fire Station. The project will include site imprvements (including new road), concrete ramp, concrete foundation and floor slab, structural steel frame, masonry walls, sloping metal roof and all utilities including, but not limited to, heating, ventilation, air conditioning, lighting, electrical service and back-up power generation, water, sewer and fire suppression to produce a complete and usable facility. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 60 Tons

11. Requirement: 6905 SM Adequate: 0 SM Substandard: 1032 SM

PROJECT: MEDEVAC ramp expansion/fire station. (Current Mission).

REQUIREMENT: Provide adequate space to conduct MEDEVAC operations safely at Bagram Air Base. Provide an adequately sized fire station, sized for 63 personnel, for fire fighting and rescue operations for structures and aircraft at Bagram Air Base.

CURRENT SITUATION: The existing MEDEVAC ramp provides critical life saving service to all Coalition Forces in Afghanistan. The current location of the MEDLOG warehouse and the Fire Station severely restrict access to the connecting taxiway of the MEDEVAC ramp. The ramp throat is being choked with vehicles and pedestrians departing their facilities directly on to the taxiway, rendering Medical Evacuation operations unsafe. There are constant operations with heavy equipment operating on the taxiway. The shortage of ramp space at Bagram forces Blackhawk helicopters to overflow onto this ramp. Emergency aircraft have a difficult time maneuvering around the crowded ramp to access the emergency facilities treating wounded Coalition forces. This delay in accessing the facilities greatly increases the risk to the wounded forces receiving treatment. On several occasions, life saving

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BAGRAM AB, AFGHANISTAN	4. PROJECT TITLE MEDEVAC RAMP EXPANSION/ FIRE STATION	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	ATUH110103	16,580

missions have been delayed because of obstructions in the taxi lanes of the Medical Evacuation aircraft. The current parking spaces are exhausted and the ramp can not accommodate additional aircraft. The aircraft accessing the ramp require a 75 foot clearance while taxiing according to guidance in UFC 3-260-1. The Blackhawks do not achieve this clearance in the current configuration of facilities and are operating under a waiver. On the south side of the taxiway, the Fire Station has vehicles and CONEXs parked encroaching ramp space. Demolishing the current Fire Station and constructing a new adequately sized Station on the footprint of the MEDLOG warehouse will allow unimpeded access for the Blackhawks to the ramp while providing the parking space needed with the required clearance. Additionally, the main fire station has deteriorated. The wooden structure was built in 2002 and is severely undersized for the number of aircraft based at Bagram Airfield. The lack of storage space forces bunker gear to be stored in an additional B-Hut which further delays the response time of the firefighters.

IMPACT IF NOT PROVIDED: Life saving time critical to Medical Evacuation operations will continue to deteriorate due to obstructions in the taxiing lanes of the aircraft. Coalition forces will suffer undue casualties due to the degradation of the Medical Evacuation mission. Parking spots for aircraft will continue to be an issue during robust operations. The fire station will continue to be severely undersized. The inadequacy of the fire station will endanger the high quality of emergency services required in a combat zone. If these facilities are not provided, safe and efficient life saving Medical Evacuation and Fire/Emergency Services will continue to degrade, endangering the lives of Coalition forces.

ADDITIONAL: This project meets the criteria/scope specified in the Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status quo, new construction) was completed. It indicates there is only one option that will meet operational requirements; new construction. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into design, development, and construction of the projects in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Civil Engineer: Maj Brian Stahl; DSN 318-431-4410: (MEDEVAC Ramp: 6,905 SM = 74,325 SF; Fire Station: 3600 SM = 38,750 SF) A NATO pre-financing statement (PFS) will be submitted for this project prior to award.

JOINT USE CERTIFICATION: These facilities 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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BAGRAM AB, AFGHANISTAN	MEDEVAC RAMP EXPANSION/ FIRE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	ATUH110103	16,580

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	01-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	995
(b) All Other Design Costs	497
(c) Total	1,492
(d) Contract	1,095
(e) In-house	397
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2011	150
FURNISHINGS	3400	2011	140

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
SHAIKH ISA AB, BAHRAIN	AIR COMBAT COMMAND (AFCENT)	1.25

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	EN	CIV	OFF	ENL	CIV	TOTAL
AS OF 30-Sep-09	CLASSIFIED DATA									Note 1
END FY 2015	CLASSIFIED DATA									

7. INVENTORY DATA ($000)	
a. Total Acreage:	n/a
b. Inventory Total as of : (30 Sep 09)	n/a
c. Authorization Not Yet in Inventory:	n/a
d. Authorization Requested in this Program:	45,000
e. Planned in Next Four Years Program:	0
f. Remaining Deficiency:	0
g. Grand Total:	45,000

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
113-321	North Apron Expansion	107,800	SM	45,000	Sep-09	Sep-10

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

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000
	None		

9c. Real Property Maintenance Backlog This Installation: n/a

10. Mission or Major Functions: A contingency site that supports a range of missions to include: fighter, airlift, refueling, intelligence, surveillance and reconnaissance.

NOTE 1: Personnel numbers at a contingency location are classified, therefore not provided.

11. Outstanding Pollution and Safety (OSHA Deficiencies):
- a. Air pollution
- b. Water Pollution
- c. Occupational Safety and Health
- d. Other Environmental

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHAIKH ISA AB , BAHRAIN	NORTH APRON EXPANSION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	VKWD113100	45,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				37,416
APRON	SM	94,500	365	(34,493)
SHOULDERS	SM	9,800	168	(1,646)
TAXIWAYS	SM	3,500	365	(1,278)
SUPPORTING FACILITIES				2,621
AIRFIELD PAVEMENT MARKINGS	LS			(392)
COMPASS ROSE	LS			(1,300)
SITE IMPROVEMENTS	LS			(929)
SUBTOTAL				40,037
CONTINGENCY (5.0%)				2,002
TOTAL CONTRACT COST				42,039
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				2,733
TOTAL REQUEST				44,772
TOTAL REQUEST (ROUNDED)				45,000

10. Description of Proposed Construction: Construct a 94,500SM medium-load, Portland cement concrete aircraft apron with shoulders and connecting taxiways. Work will also include relocation of existing Compass Rose, pavement markings and other necessary site improvements. This facility will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

11. Requirement: 209670 SM Adequate: 101870 SM Substandard: 0 SM

PROJECT: North Apron Expansion (Current Mission)

REQUIREMENT: Construct a 94,500SM, medium load extension to the North Apron to support the consolidation of Air Force tankers and Navy ISR aircraft for OEF. The CFACC requires beddown of tanker and ISR aircraft in Bahrain in response to pending host nation construction plans at other locations, and force posture planning efforts.

CURRENT SITUATION: Isa AB has been identified as a strategic location to support increased USCENTCOM capabilities throughout the theater and the responsible drawdown from Iraq. There is no current capability within the theater airfield system to absorb stress from construction, host nation restrictions, or force posture changes. To support these operational requirements recent base access situations have highlighted the need for additional strategic beddown options in theater to alleviate Maximum On Ground situations and maximize capabilities in the joint force posture.

IMPACT IF NOT PROVIDED: If additional ramp is not constructed at Isa, the CFACC will not be able to adequately support air refueling and ISR requirements in Iraq. Additionally, any loss of access to current theater beddown locations affecting tanker assets will significantly impact the CFACC's ability to provide air refueling support to CAS and ISR assets theater-wide. Maximum on ground limitations throughout the theater severely inhibit alternate tanker basing, to the extent that any significant loss of access will force the CFACC to re-deploy tanker assets. Any such force reduction drastically degrades air refueling capacities in Afghanistan and throughout the theater.This will force the ground force commander to either delay operations until adequate support can be provided or place forces

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION SHAIKH ISA AB , BAHRAIN		4. PROJECT TITLE NORTH APRON EXPANSION	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 113-321	7. PROJECT NUMBER VKWD113100	8. PROJECT COST ($000) 45,000

at increased risk due to the lack of adequate air support.

ADDITIONAL: This project complies with Air Force Handbook 32-1084. An analysis for accomplishing this project (status quo, renovation, new construction) was done. It indicated there is only one option that will meet operational requirements; new construction. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Joint use potential will be incorporated where feasible. This project has been coordinated with the installation physical security plan, and all physical security measures are included. USAF Engineer: Mr Nick Kazunas; DSN 965-8846 (Apron 94,500 SM = 1,017,190 SF, Shoulders 9,800 SM = 105,486 SF, Taxiways 3,500 SM = 37,674 SF)

JOINT USE CERTIFICATION: This facility will be designed and built for Joint Use Operations in support of OEF.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SHAIKH ISA AB , BAHRAIN	NORTH APRON EXPANSION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	VKWD113100	45,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	01-SEP-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	2,700
(b) All Other Design Costs	1,350
(c) Total	4,050
(d) Contract	3,700
(e) In-house	350

(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 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

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
KAPAUN ADMINISTRATION ANNEX GERMANY	UNITED STATES AIR FORCES IN EUROPE	COST INDEX 1.1

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	64	574	224	0	48	0	111	696	200	1,917
END FY 2015	63	637	235	0	48	0	109	702	200	1,994

7. INVENTORY DATA ($000)	
a. Total Acreage: 155	
b. Inventory Total as of : (30 Sep 09)	298,763
c. Authorization Not Yet in Inventory:	0
d. Authorization Requested in this Program:	19,600
e. Planned in Next Four Years Program:	0
f. Remaining Deficiency:	0
g. Grand Total:	318,363

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
721-312	Dormitory (128 Rm)	128	RM	19,600	Jun-09	Sep-10
		Total		19,600		

9a. Future Projects: Typical Planned Next Four Years:

None

9b. Real Propery Maintenance Backlog This Installation: ($M) 5

10. Mission or Major Functions: Home of the USAFE Airman Leadership School, Headquarters DECA Europe, 21st Operational Weather Squadron, as well as a Space Command unit.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KAPAUN ADMINISTRATION ANX, GERMANY	DORMITORY (128 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	TYFU083507R2	19,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				13,679
DORMITORY (128 RM)	SM	4,480	2,860	(12,813)
INTERIOR COMMUNICATION SUPPORT	LS			(482)
SDD & EPACT05	LS			(256)
ANTITERRORISM FORCE PROTECTION	LS			(128)
SUPPORTING FACILITIES				3,849
UTILITIES & STORMWATER DRAINAGE	LS			(930)
SITE DEVELOPMENT & IMPROVEMENTS	LS			(900)
ELEVATORS	EA	2	82,000	(164)
RELOCATION OF SPORTSFIELD	LS			(775)
EXTERIOR COMMUNICATION SUPPORT	LS			(160)
ENVIRONMENTAL SUPPORT	LS			(175)
PASSIVE FORCE PROTECTION MEASURES	LS			(285)
PAVEMENTS	LS			(460)
SUBTOTAL				17,528
CONTINGENCY (5.0%)				876
TOTAL CONTRACT COST				18,404
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,196
TOTAL REQUEST				19,600
TOTAL REQUEST (ROUNDED)				19,600
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(215.0)

10. Description of Proposed Construction: Multi-story structure with reinforced concrete foundations and floor slabs, masonry walls, fire suppression and sloped roof systems. Construction will be in accordance with the current Air Force Enlisted Dormitory Design Guide and consist of four-bedroom modules. Scope includes upgrade of the electrical substation, and all other utilities, elevators, laundries, storage and lounge areas, as well as a parking area with site development and landscaping. The work also includes the relocation of a sports field and shall include all other necessary support and be in compliance with current US Air Force and German regulations. Includes antiterrorism/force protection requirements identified in DoD unified facilities criteria.

Grade Mix: E1-E4 128

11. Requirement: 1555 RM Adequate: 1320 RM Substandard: 595 RM

PROJECT: Dormitory (128 Rm). (Current Mission).

REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated jobs these people must perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. As an overseas location with a sensitive mission, the dormitory must be constructed to deter terrorist activity and protect occupants from terrorist attack.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KAPAUN ADMINISTRATION ANX, GERMANY	DORMITORY (128 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	TYFU083507R2	19,600

CURRENT SITUATION: The base has insufficient on-base housing to adequately accommodate unaccompanied enlisted personnel in close proximity to their work center. The existing dormitories are scattered throughout the local area, with Sembach Air Station being approximately 18 kilometers away. Most are configured to the former 2 + 2 standard. This situation has created numerous unacceptable problems and hardships for unaccompanied enlisted personnel. Some airmen with their active duty workplace at Ramstein AB and dorm room at Sembach or Vogelweh must spend extensive man-hours to commute back and forth to work on their own expense due to the lack of an adequate, flexible bus shuttle service; especially difficult for shift workers.

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. Therefore a major Air Force objective to provide unaccompanied enlisted personnel with "Dorms-4-Airmen" in accordance with the governing Air Force Enlisted Dormitory Design Guide cannot be satisfied.

ADDITIONAL: This project is not currently eligible for NATO funding, and we do not anticipate it becoming eligible in the future. This project meets the criteria and scope specified in the new Air Force Enlisted Dormitory Design Guide established by OSD and AFH 32-1084, "Facility Requirements". All known alternatives were considered during the development of this project. No other option could meet mission requirements. An economic analysis was not performed. A certificate of exception has been prepared. This project is in accordance with the 2007 Air Force Dormitory Master Plan (AFDMP), which analyzed dormitories plus campus infrastructure and rated buildings 2765 through 2773 at Kapaun Annex as "Tier 1" dorms. These facilities will be converted to admin space upon completion of this project. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. FY 2009 Unaccompanied Housing RPM Conducted: $6,587K; FY 2010 Unaccompanied Housing RPM Conducted: $4,211K; Future Unacompanied Houding RPM requirements (estimated): FY11: $3,169K; FY12: $4,350K; FY13: $2,802K; FY14: $3,484K. BASE CIVIL ENGINEER: Col. Gary Chesley, 011-49-6371-6228. Dormitory, 128 RM: 4,480 SM = 48,205 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .7212

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KAPAUN ADMINISTRATION ANX, GERMANY	DORMITORY (128 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	TYFU083507R2	19,600

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	30-SEP-09
(e) Date Design Complete	30-SEP-10
(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	1,176
(b) All Other Design Costs	588
(c) Total	1,764
(d) Contract	1,276
(e) In-house	488
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	13 MAR

* 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)
FURNISHINGS	3400	2011	150
COMMUNICATIONS EQUIIPMENT	3080	2011	65

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
RAMSTEIN AIR BASE GERMANY	UNITED STATES AIR FORCES IN EUROPE	COST INDEX 1.1

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	1,284	5,674	2,624	0	0	0	137	1096	200	11,015
END FY 2015	1,193	5,337	2,605	0	0	0	139	1152	200	11,449

7. INVENTORY DATA ($000)		
a. Total Acreage:	5,061	
b. Inventory Total as of : (30 Sep 09)		8,394,658
c. Authorization Not Yet in Inventory:		135,400
d. Authorization Requested in this Program:		22,354
e. Planned in Next Four Years Program:		34,100
f. Remaining Deficiency:		770,400
g. Grand Total:		9,356,912

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
171-212	C-130J Flight Simulator Facility	1,285	SM	8,800	Aug-09	Aug-10
411-128	Deicing Fluid Storage & Dispensing Fac.	1	LS	2,754	Jun-09	Sep-10
141-753	UAS SATCOM Relay Pads and Facility	1,200	SM	10,800	Aug-09	Aug-10
		Total		22,354		

9a. Future Projects: Typical Planned Next Four Years:

721-312	Dormitory (192 Rm)	6,720	SM	34,100
		Total		34,100

9b. Real Propery Maintenance Backlog This Installation: ($M)	175

10. Mission or Major Functions: Home of the 86th Airlift Wing, Headquarters US Air Forces in Europe, 3rd AF, 17th AF, as well as the NATO Headquarters Air North. Ramstein AB is the central airlift hub for strategic and tactical airlift within the European theater. The wing's mission is the operation and maintenance of airlift assets composed of C-130s for tactical airlift, a C-40, C-20s & C-21s for DV airlift throughout Europe, Africa, and the Middle East.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	CONSTRUCT C-130J FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	TYFR123063	8,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				5,657
SIMULATOR FACILITY	SM	1,285	3,900	(5,012)
ANTITERRORISM FORCE PROTECTION	LS			(51)
SDD & EPACT05	LS			(101)
INTERIOR COMMUNICATION SUPPORT	LS			(493)
SUPPORTING FACILITIES				2,213
UTILITIES	LS			(690)
PAVEMENTS	LS			(310)
PASSIVE FORCE PROTECTION MEASURES	LS			(73)
SITE DEVELOPMENT & IMPROVEMENTS	LS			(300)
RELOCATION OF JP-8 PIPELINE	LS			(390)
EXTERIOR COMMUNICATION SUPPORT	LS			(330)
ENVIRONMENTAL SUPPORT	LS			(120)
SUBTOTAL				7,870
CONTINGENCY (5.0%)				393
TOTAL CONTRACT COST				8,263
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				537
TOTAL REQUEST				8,800
TOTAL REQUEST (ROUNDED)				8,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(26,000.0)

10. Description of Proposed Construction: Steel frame high bay structure with reinforced concrete foundation and floor slab, masonry walls/finish system, sloped metal roof, electrical, mechanical, communications, fire protection and detection systems, site improvements, vehicle parking and all other necessary support. The facility shall provide space for a Weapon System Trainer (WST) bay, WST computer room, Load Master Part Task Trainer (LMPTT), Visual Threat Recognition and Avoidance Trainer (VTRAT), secure and non-secure classrooms, instructors area, brief /debrief rooms, maintenance area, office/administrative space, restrooms, janitors closet, communications room, electrical room, mechanical room and all other necessary support. Also included is air conditioning, back-up power & relocation of a JP-8 pipeline being in the way of construction. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 75 Tons

11. Requirement: 1285 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct C-130J Flight Simulator Facility. (New Mission)

REQUIREMENT: An adequately sized and properly configured C-130J flight simulator facility is required to meet the mission qualification, training and proficiency requirements of assigned aircrew personnel. The flight simulator facility is needed to support the ongoing bed-down of the new C-130J A/C fleet at Ramstein AB, with a Primary Aircraft Authorization (PAA) of 14 aircraft scheduled to be reached in summer of 2010. The facility must provide realistic training and accurately

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE, GERMANY	4. PROJECT TITLE CONSTRUCT C-130J FLIGHT SIMULATOR FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	TYFR123063	8,800

portray the Mission Design Series (MDS) needed to properly train flying personnel. Therefore it is essential to provide hazardous emergency training procedures that otherwise could not be conducted. A C-130J WST for Ramstein is included in the FY11 submission with a FY13 delivery (about 30 months lead time for WST delivery). This project will provide for the facility to house the equipment.

CURRENT SITUATION: Currently there is no flight simulator existing on base, nor are there any facilities on the installation that can accept the new simulator training requirement. All C-130J simulator training for assigned flying personnel requires temporary duty to other installations or contractor locations that have both the additional capacity and simulator time.

IMPACT IF NOT PROVIDED: The bed-down and safe operation of the C-130J aircraft cannot be accomplished without providing the required flight simulator training facilities. Emergency procedures training that can only be taught in the simulator would need to be accomplished elsewhere, negatively impacting the availability of aircrews for other duties.

ADDITIONAL: The project is not within an established NATO Infrastructure category for common funding, nor it is expected to become eligible for reasons stated. Current NATO policy indicates that this item will continue to be a user responsibility. This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements", and the AMC FLT TRNG Design Guide for such facilities. An analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, and new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Col Gary D. Chesley, 0049-6371-47-6228. C-130J Simulator Facility: 1,285 SM = 13,832 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .7212

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	CONSTRUCT C-130J FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	TYFR123063	8,800

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	31-AUG-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-MAR-10
(e) Date Design Complete	15-AUG-10
(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	528
(b) All Other Design Costs	264
(c) Total	792
(d) Contract	528
(e) In-house	264
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 APR
(6) Construction Completion	12 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
SIMULATOR EQUIPMENT	3080	2012	25,000
PCCIE	3080	2012	800
COMM EQUIPMENT	3400	2012	180
TELEPHONES	3400	2012	20

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	DEICING FLUID STORAGE & DISPENSING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	411-128	TYFR083001	2,754

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				1,720
PUMPHOUSE	SM	125	3,112	(389)
75 CM STORAGE TANKS WITH ACCESSORIES	CM	300	2,400	(720)
CONCRETE PAD WITH CATCH BASINS	SM	3,280	158	(518)
INTERIOR COMMUNICATION SUPPORT	LS			(42)
SDD & EPACT05	LS			(34)
ANTITERRORISM/FORCE PROTECTION	LS			(17)
SUPPORTING FACILITIES				743
UTILITIES	LS			(160)
ROADS & PAVEMENTS	LS			(91)
STORMWATER DRAINAGE	LS			(36)
SITE DEVELOPMENT & IMPROVEMENTS	LS			(140)
PASSIVE FORCE PROTECTION MEASURES	LS			(53)
EXTERIOR COMMUNICATION SUPPORT	LS			(161)
ENVIRONMENTAL SUPPORT	LS			(29)
LIGHTNING PROTECTION & AREA LIGHTING	LS			(43)
DISPOSAL OF OLD TANKS	LS			(30)
SUBTOTAL				2,463
CONTINGENCY (5.0%)				123
TOTAL CONTRACT COST				2,586
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				168
TOTAL REQUEST				2,755
TOTAL REQUEST (ROUNDED)				2,754
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(32.0)

10. Description of Proposed Construction: All civil, structural, electrical, utility and communication work necessary for the construction of a centralized deicing fluid dispensing facility, consisting of a pump-house with controls, above ground metal storage tanks with accessories and dispensing area on an associated concrete pad IAW applicable Host Nation environmental laws as well as the Final Governing Standards (FGS). Scope also includes environmental support, disposal of the old tanks, pavements, roads, a roof and all other necessary support. Facility will be equipped with fire suppression and security alarms, lightning protection, back-up power, as well as heating elements and catch basin. In addition it has to be interconnected via computer system to the surface water run-off management system. Includes antiterrorism/force protection requirements identified in DoD unified facilities criteria.

Air Conditioning: 2 Tons

11. Requirement: 300 CM Adequate: 0 CM Substandard: 150 CM

PROJECT: Deicing Fluid Storage & Dispensing Facility. (Current-Mission)

REQUIREMENT: An adequately sized and configured centralized deicing dispensing

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	DEICING FLUID STORAGE & DISPENSING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	411-128	TYFR083001	2,754

facility is required for the efficient storage and dispensing of deicing fluids in order to expedite deicing operations in support of aircraft flying missions during wintertime. It is also needed to provide a good measurement tool to control fluid usage by various units on base and predict Total Organic Carbon (TOC) loads in different surface water run-off basins based on mathematical models The facility will minimize the probability for uncontrolled releases of contaminated stormwater during the deicing season. Deicing is a critical function of aircraft flying operations in winter. Ice formation on aircraft surfaces has been shown to substantially impair an aircraft's ability to take off and fly, especially when fully loaded. The supporting facilities costs exceed 25% of the primary facilities costs due to the facility being built in a sensitive area within the mid-airfield, requiring large utility runs as well as special markings and signage.

CURRENT SITUATION: Aircraft deicing usually is performed shortly before the aircraft is ready to taxi out for takeoff. The operation is traditionally accomplished by spraying aircraft with concentrated deicing fluid or a mixture of deicing fluid and heated water. Same procedures apply to airfield pavements with a different type of fluid in order to prevent black-ice on apron, taxiways and runways. On Ramstein AB, every flying unit, as well a the snow removal shop operate with individual unit-owned tanks, directly bought from contractors, partially in compliance with Host Nation environmental laws, but operating as uncontrolled, independent units. Therefore during the de-icing season the expected run-off concentration is estimated with an Excel®-based tool, integrating the weather forecast, current water levels, Total Organic Carbon (TOC) concentration (or Chemical Oxygen Demand (COD) if wet-chemical analysis is required) and flow rates based on information (e.g. number of daily flight operations) which does not exactly reflect the de-icing fluid usage amounts, leaving room for uncontrollable discharge of contaminated waters into nearby creeks.

IMPACT IF NOT PROVIDED: Failure to replace these organizationally owned, uncontrolled storage tanks with a centralized dispensing facility could result in fines or penalties if the maximum allowable local treatment plant capacity is exceeded. During a hard winter with severe weather conditions, the Landstuhl Waste Water Treatment Plant may not be able to accept any further run-off water for treatment from the base and shut off its inlet. This may internally cause the retention capacity on the base to be exceeded, which could consequently result in uncontrollable discharges to the receiving creeks. These uncontrollable discharges of contaminated waters would lead to legal compliance violations, and penalties could in worst case cease necessary deicing operations during winter time until the problem is corrected. According to Air Transportation Association data, as little as 1/64 of an inch of ice on the leading edge of an aircraft's wing can reduce takeoff lift by as much as 24%. Aside from this serious safety hazard, this reduction in lift also can cause increased fuel usage and greater engine wear. Another hazard to related non-conducted deicing is the potential for damage to and/or malfunction of an aircraft's systems, which can occur when pieces of ice fly off during taxiing or when ice jams flying control systems (e.g., flaps, rudders). Therefore, without this project, the support of contingencies and wartime operations within European and Middle East theaters could be severely hampered.

ADDITIONAL: This project is not within an established NATO Infrastructure category for common funding, nor is it expected to become eligible. Current NATO policy indicates that this item will continue to be a user responsibility. This project meets the criteria/scope specified in AFH 32-1084, "Facility Requirements". An analysis of reasonable options was done and indicates that only one option meets operational requirements; new construction. An economic analysis was not performed. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	DEICING FLUID STORAGE & DISPENSING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	411-128	TYFR083001	2,754

13423, 10 USC 2802 (c) and other applicable laws and Executive orders. BASE CIVIL ENGINEER: Col. Gary Chesley, 011-49-6371-47-6228. Pump-house: 125SM = 1,346SF, Concrete Pad with Catch Basins 3,280SM = 35,293SF, Storage tanks with Accessories 300CM = 79,252 GA.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .7212

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.

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	DEICING FLUID STORAGE & DISPENSING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	411-128	TYFR083001	2,754

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	165
(b) All Other Design Costs	83
(c) Total	248
(d) Contract	195
(e) In-house	53
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 MAR

* 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)
COMMUNICATION EQUIPMENT	3400	2011	5
METERING EQUIPMENT	3400	2011	22
SPILL RESPONSE KIT	3400	2011	5

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	UAS SATCOM RELAY PADS AND FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35219	141-753	TYFR073143	10,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UAS SATCOM RELAY PADS AND FACILITY				5,771
SATCOM COMMUNICATIONS SUPPORT FACILITY	SM	1,200	3,588	(4,306)
SATELLITE ANTENNA PADS WITH CONNECTOR PANELS	EA	12	100,000	(1,200)
SDD & EPACT05	LS			(100)
ANTITERRORISM FORCE PROTECTION	LS			(50)
INTERIOR COMMUNICATION SUPPORT	LS			(115)
SUPPORTING FACILITIES				3,902
UTILITIES	LS			(730)
BACK-UP POWER GENERATORS WITH AUTO-TRANSFER	EA	2	120,000	(240)
STORMWATER DRAINAGE	LS			(191)
SITE DEVELOPMENT & IMPROVEMENTS	LS			(330)
ROADS & PAVEMENTS	LS			(294)
EXTERIOR COMMUNICATION SUPPORT	LS			(345)
ENVIRONMENTAL SUPPORT	LS			(90)
DEMOLITION OF BUILDINGS 2038,2144,2011 & 2012	SM	1,926	369	(711)
PASSIVE FORCE PROTECTION MEASURES (PL-2)	LS			(971)
SUBTOTAL				9,672
CONTINGENCY (5.0%)				484
TOTAL CONTRACT COST				10,156
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				660
TOTAL REQUEST				10,816
TOTAL REQUEST (ROUNDED)				10,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(911.0)

10. Description of Proposed Construction: All civil, structural, mechanical, electrical, fire prevention/alarm, site, and communication supporting work necessary for the construction of UAS SATCOM Relay Facility. The project consists of masonry constructed facilities with sloped roofing systems on concrete foundations and floor slabs. Provides space for squadron operations, admin, and maintenance functions, as well as enclose space for the Mission Control Vans. Includes site work to include 12 each UAS SATCOM Relay structural pads and/or foundations with hardscape utilities and underground conduit connectivity to the main facility and suitable breakout panels and connections. Scope includes demolition of facilities in the way of construction, as well as pavements to provide space for vehicle parking, access roads. In addition it also includes all security features required by AFI 31-101 for the adequate protection of this PL-2 level resource. The work shall include all other necessary support and must be in compliance with current US Air Force and German regulations. Antiterrorism / Force Protection measures have to be implemented IAW DoD Construction Standards; in addition LEED design principles have to be applied.

Air Conditioning: 18 Tons

11. Requirement: 1200 SM Adequate: 0 SM Substandard: 0 SM

Construct Satcom Relay Compound at Ramstein AB, Germany. (New-Mission)

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAMSTEIN AIR BASE, GERMANY	UAS SATCOM RELAY PADS AND FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35219	141-753	TYFR073143	10,800

REQUIREMENT: Unmanned Aerial Systems (UAS) require an adequate-sized and configured facility to ensure maximum mission effectiveness during weapons engagement and reconnaissance missions in support of the war-fighters. The construction of a Satellite Antenna Relay facility and compound is required in order to support remote controlled aircraft command links, connecting CONUS-based ground control stations / mission control elements with UAS aircraft in the AOR. Therefore completion of this project will satisfy the long-term SATCOM Relay requirements for Predator, Reaper and Global Hawk, eliminating current temporary set-ups. The site will also support Navy Broad Area Surveillance Delta (BAMS-D) and Big Safari/special operations missions. The supporting facilities costs exceed 25% of the primary facilities costs due to the facility being built in an undeveloped environmentally sensitive area, requiring extensive utility and communications runs as well as demolition of old hardened aircraft shelters and heavy concrete aircraft parking aprons. Further, the high costs are driven by the required special PL-2 security features.

CURRENT SITUATION: Predator (MQ-1), Reaper (MQ-9) and Global Hawk (RQ-4) aircraft will use this site to conduct operations within EUCOM, AFRICOM and CENTCOM Areas of Responsibility (AOR) in support of Overseas Contingency Operations. Because of multi-theater-wide operations, the respective SATCOM Relay Station must be located at Ramstein Air Base to provide most current information to the war-fighting commander at any time demanded. Currently, Ramstein lacks adequate facilities to conduct squadron level operations for the vital UAS mission. Additionally, the nature of the operation requires a site location near an existing intelligence facility on Ramstein Air Base in order to prepare and provide adequate data to the demanding battle-staff agencies.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform these vital operations associated with the UAS aircraft. Without these facilities, the aircraft will not be able to perform their essential UAS missions within the EUCOM, AFRICOM adn CENTCOM AOR, UAS weapon strikes cannot be supported and necessary intelligence information cannot be obtained. Therefore lack of this UAS Relay Site could result in significant degradation of operational capability and have a serious impact on ongoing and future missions.

ADDITIONAL: This project is not eligible for NATO funding, since NATO will acquire its own system and therefore this project exceeds current NATO Standard Criteria. This project meets the criteria/scope specified in AFH 32-1084, "Facility Requirements". A preliminary analysis of reasonable options was done and indicated that only one option meets operational requirements. Therefore an economic analysis was not performed. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Base Civil Engineer: Col. Gary D. Chesley, 011-49-6371-47-6228. SATCOM Communication Support Facility 1,200 SM = 12,912.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .7212

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 AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE, GERMANY	4. PROJECT TITLE UAS SATCOM RELAY PADS AND FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35219	141-753	TYFR073143	10,800

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	31-AUG-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-MAR-10
(e) Date Design Complete	15-AUG-10
(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	648
(b) All Other Design Costs	324
(c) Total	972
(d) Contract	748
(e) In-house	224

(4) Construction Contract Award	11 FEB
(5) Construction Start	11 APR
(6) Construction Completion	12 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATION EQUIPMENT	3080	2012	300
UPS	3080	2012	611

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION VILSECK, GERMANY	4. COMMAND: UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.15

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	3	55	0							58
END FY 2015	3	55	0							58

7. INVENTORY DATA ($000)

a. Total Acreage:	
b. Inventory Total as of : (30 Sep 09)	0
c. Authorization Not Yet in Inventory:	0
d. Authorization Requested in this Program:	12,900
e. Planned in Next Three Years Program:	0
f. Remaining Deficiency:	0
g. Grand Total:	12,900

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-753	Construct ASOS Facility	4,274	SM	12,900	Jun-09	Sep-10
		Total		12,900		

9a. Future Projects: Typical Planned Next Four Years:

None

9b. Real Propery Maintenance Backlog This Installation: ($M) N/A

10. Mission or Major Functions: Plan, coordinate, integrate and control Close Air Support missions and coordinate Air Interdiction, Theater Airlift, Intelligence, Surveillance and Reconnaissance missions for the precision application of air and space power on the battlefield.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VILSECK, GERMANY	AIR SUPPORT OPERATIONS SQUADRON (ASOS) COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-753	VILS093001	12,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				10,014
UNIT OPERATIONS FACILITY	SM	2,842	3,137	(8,915)
VEHICLE STORAGE	SM	1,115	452	(504)
FIELD EQUIPMENT STORAGE	SM	244	965	(235)
HAZARDOUS MATERIAL STORAGE	SM	12	1,664	(20)
EXTERIOR WASHRACK	SM	61	784	(48)
SDD & EPACT05	LS			(194)
ANTITERRORISM/FORCE PROTECTION	LS			(97)
SUPPORTING FACILITIES				1,522
UTILITIES	LS			(307)
PAVING, WALKS, CURBS AND GUTTERS	LS			(350)
STORM DRAINAGE	LS			(33)
SITE IMPROVEMENTS	LS			(390)
COMMUNICATIONS	LS			(442)
SUBTOTAL				11,536
CONTINGENCY (5.0%)				577
TOTAL CONTRACT COST				12,112
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				787
TOTAL REQUEST				12,900
TOTAL REQUEST (ROUNDED)				12,900
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(440.0)

10. Description of Proposed Construction: Construct a support complex for a US Air Force small-sized air support operations squadron. Main facility will provide both operations/administrative for six flights supporting two BCTs and vehicle maintenance support space, washrack, hazardous material storage for maintenance of 18 HMMWVs and 2 MRAPs. Anti-terrorism/force protection measures include standoff distances, redundant structural systems for mitigating progressive collapse, blast resistant exterior doors and windows, security lighting systems, protective landscaping and barrier protection. Provide a fenced and paved open hardstand area, which will include an open sided shelter for covered equipment storage and operational vehicle parking. Provide 50 parking spaces for private owned vehicles (POV). Heating will be provided by connection to district heating system. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 15 Tons

11. Requirement: 4274 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Air Support Operations Squadron (ASOS) Complex (New Mission)

REQUIREMENT: A facility is required to adequately support the administrative, operational and training, vehicle and equipment maintenance, and storage requirements for the 2nd Air Support Operations Squadron (2 ASOS). This unit is assigned to Vilseck Army Installation, Germany, and supports the 2nd Cavalry

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VILSECK, GERMANY	AIR SUPPORT OPERATIONS SQUADRON (ASOS) COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-753	VILS093001	12,900

Regiment (2CR) and USAREUR. This project supports Chief of Staff of the Air Force direction to support the collocation of the ASOS with its air support for aligned Army units. It also maintains mission-ready ASOS personnel, radios, vehicles, and mobility equipment. The 2nd ASOS requires constant interaction with the aligned Army unit staff.

CURRENT SITUATION: The current facility barely meets the minimum operational requirements of the 22 person detachment. The Air Force presence is doubling from 22 personnel to 44 personnel to support two Stryker BCTs at Vilseck plus additional vehicle and equipment storage requirements. 2 ASOS personnel are currently operating out of the west end of building 721 in the RSS motor pool. Current facility is not designed for execution of maintenance. There is no excess facility space available on South Camp Vilseck that can be reconfigured to support the operational and maintenance requirements associated with the ASOS mission.

IMPACT IF NOT PROVIDED: Failure to provide facilities will significantly impact the ASOS operational capabilities. Facilities will not be available to perform operations and maintenance functions critical to providing close air support. Also, without adequate facility space, valuable assets will remain exposed to harsh environments resulting in premature deterioration and increased maintenance costs.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and the Air Force ASOS Design Guide. The ASOS design guide provide net square footage requirements that were increased by 30 percent for office areas and 25 percent for non-office areas. This project is not eligible for NATO funding. An Economic Analysis was not completed because there is only one option that will meet requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Design and siting of this project will be done in compliance with United States Air Force and USAREUR Protection Guidelines. Point of Contact: Lt Col Steven Neuser, 09-662-83-2306. ASOS: 2,842 SM = 30,591 SF; Vehicle Storage: 1,115 SM = 11,997 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .7212

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
VILSECK, GERMANY	AIR SUPPORT OPERATIONS SQUADRON (ASOS) COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-753	VILS093001	12,900

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	774
(b) All Other Design Costs	387
(c) Total	1,161
(d) Contract	874
(e) In-house	287
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 MAR

* 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)
FURNISHINGS	3400	2011	310
COMMUNICATIONS EQUIPMENT	3080	2011	130

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE
INSTALLATION AND LOCATION ANDERSEN AIR BASE GUAM	COMMAND: PACIFIC AIR FORCES	5. AREA CONST COST INDEX 2.64

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	158	1,595	376	0	0	0	0	0	0	2,129
END FY 2015	158	1,643	383	0	0	0	0	0	0	2,184

7. INVENTORY DATA ($000)

a. Total Acreage: 11,096	
b. Inventory Total as of : (30 Sep 09)	6,145,097
c. Authorization Not Yet in Inventory:	97,100
d. Authorization Requested in this Program:	50,300
e. Planned in Next Four Years Program:	738,365
f. Remaining Deficiency:	775,459
g. Grand Total:	7,806,321

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-753	Guam Strike Ops Group & Tanker Task Fo	4,094	SM	$9,100	Design-Build	
841-427	Guam Strike S. Ramp Utilities, Ph 1	1	LS	$12,200	Design-Build	
610-127	PRTC - Combat Communications Ops Faci	1,847	SM	$9,200	Design-Build	
721-311	PRTC- Commando Warrior Open Bay Stud	1,254	SM	$11,800	Design-Build	
610-127	PRTC - Red Horse HQ/Engineering Facility	830	SM	$8,000	Design-Build	
			Total	$50,300		

9a. FUTURE PROJECTS: Typical Planned Next Four Years:

141-782	Air Freight Terminal Complex	3,062	SM	$37,000
422-264	AEF FOL Munitions Storage Igloos, Ph 2	784	SM	$4,943
100-001	GUAM STRIKE - Facilities	1	LS	$119,640
100-001	Guam Resiliency, Ph 1	1	LS	$30,000
422-264	AEF FOL Munitions Storage Igloos, Ph 3	784	SM	$4,943
100-001	Guam Resiliency, Ph 2	1	LS	$30,000
740-675	Library/Education Complex	1,180	SM	$9,800
100-001	Guam Resiliency, Ph 3	1	LS	$50,000
171-621	Commando Warrior MOUT Training Facility	1	LS	$2,047
721-312	Dormitory (240 RM)	7,920	SM	$58,000
740-883	Consolidate Youth Programs	1,410	SM	$7,000
100-001	Guam Resiliency, Ph 4	1	LS	$165,000
100-001	GUAM STRIKE - Facilities	1	LS	$103,395
100-001	GUAM STRIKE - Facilities	1	LS	$116,597
				$738,365

9b. Real Propery Maintenance Backlog This Installation ($M) 129

10. Mission or Major Functions: Andersen AFB is home to the 36th Wing (36 WG) with the primary mission to employ, deploy, integrate, and enable air and space forces from the most forward US sovereign air force base in the Pacific. Provides continuous bomber presence 365 days per year to support US Pacific Command. Provides a Contingency Response Group with a "911 force" capability to quickly deploy to any hot spot in the region to quickly open and operate an air base for both combat and humanitarian assistance missions. Hosts AMC air mobility squadron and Navy helicopter sea combat squadron.

11. Outstanding pollution and Safety (OSHA Deficiencies):

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

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	GUAM STRIKE OPS GROUP & TANKER TASK FORCE RENOVATION (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	AJJY113007	9,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				7,146
ALTER TANKER TASK FORCE	LS			(50)
ALTER CONTINGENCY RESPONSE GROUP	LS			(50)
ALTER SUPPORT COMPLEX	SM	4,094	1,671	(6,839)
SDD & EPA ACT 05	LS			(138)
ANTITERRORISM/FORCE PROTECTION	LS			(69)
SUPPORTING FACILITIES				759
UTILITIES (WATER/FIRE SUPPLY/SANITARY)	LS			(52)
ELECTRICAL	LS			(63)
COMMUNICATIONS	LS			(57)
DEMOLITION BUILDING 21000 (PARTIAL)	SM	3,029	194	(587)
SUBTOTAL				7,905
CONTINGENCY (5.0%)				395
TOTAL CONTRACT COST				8,300
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				515
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				316
TOTAL REQUEST				9,131
TOTAL REQUEST (ROUNDED)				9,100)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(200

10. Description of Proposed Construction: Work includes, but is not limited to the renovation of building 25002 to accommodate squadron operations for the permanently based 36th Operations Group (OG) and Operations Support Squadron (OSS) along with the persistently rotational Tanker Task Force (TTF). The facility will include fire suppression/detection, intrusion detection system, lightning protection system, all appropriate environmental controls, and all necessary supporting facilities for a complete and usable facility. In order to make space in B25002, the 36th Contingency Response Group (CRG) will be moved to B23008. Renovation of B23008 includes addition of non-load-bearing walls to establish new offices, storage space, and conference rooms to allow 36 CRG to inhabit the entire facility. The occupants of B23008 will be moved to B22026. B22026 will be renovated into general office area for several offices, conference rooms, vaults, and bathrooms. Renovating B22026 allows for partial demolition of B21000. This project will comply with DoD antiterrorism force protection requirements per unified facilities criteria.

Air Conditioning: 0 Tons

11. Requirement: 7206 SM Adequate: 0 SM Substandard: 7206 SM

PROJECT: Guam Strike Ops Group & Tanker Task Force Renovation. (New Mission)

REQUIREMENT: This project is required to meet SECDEF direction to posture Andersen as a power projection hub for intelligence, surveillance, reconnaissance, strike and aerial refueling assets. This project will directly support the capability to strike rapidly and effectively anywhere throughout the Pacific. An adequately sized and configured facility designed to accommodate the activities required to

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION ANDERSEN AIR FORCE BASE, GUAM		4. PROJECT TITLE GUAM STRIKE OPS GROUP & TANKER TASK FORCE RENOVATION (TFI)	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-753	7. PROJECT NUMBER AJJY113007	8. PROJECT COST ($000) 9,100

properly maintain squadron operations for persistent rotational tanker and bomber squadrons and the permanently assigned 36 OG. The enclosed space in the renovated building will provide for flight planning, air crew briefing and debriefing, training, and administration of the squadrons and group. The project will provide for the storage, care and issue of flight crew life support system equipment.

CURRENT SITUATION: Currently squadron operations for persistently rotational tanker and bomber squadrons are located in B21000, where minimum space is available for squadron operations. Life support equipment is stored in B18008. Several units offices are separated geographically where they should be collocated or have inadequate space to execute their mission while others have more space than they require. Solving this problem most efficiently involves renovation of several facilities. 36 OG, OSS, and Contracting are currently located in the Maintenance Group Headquarters in B17000 and Base Operations facility, B17002. Moving 36 OG and OSS to B25002 bumps 36 CRG out of that facility. 36 CRG can occupy B23008, which is no longer sufficient for the Force Support Squadron (FSS) and Finance. B23008 is relatively new and requires minimal work to accommodate 36 CRG. FSS, Finance, Contracting, and several occupants of B21000 Airman and Family Readiness Center, Airman's Attic, Non-appropriated Funds Accounting, Tax Center, Records Management, and Red Cross can be accommodated in B22026,allowing B21000 to be partially demolished. B21000 is a 1940s-era facility requiring frequent renovations simply to maintain basic hygienic and safety standards. Demolishing it puts Andersen AFB closer to meeting the DOD's initiative to eliminate older and excess square footage, decreasing the overall sustainment requirement.

IMPACT IF NOT PROVIDED: Andersen AFB will not be able to provide a dedicated fully functional centralized squadron operation facility to support permanently assigned 36 OG and OSS along with persistently rotational Tanker Task Force (TTF). Failure to provide this facility would significantly impact readiness and result in significant degradation of operational capability, and may increase the potential for a serious mishap. The TTF's ability to support bomber and fighter strike missions would be greatly limited, causing the aircraft to fly from other, farther locations, and greatly reducing the utility of the Guam Strike mission.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, and new construction) was done. It indicates that renovation of these facilities is the only reasonable option that will meet operational requirements. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Richard Mathews 671-366-7104. Tanker Task Force: 1,605 SM = 17,300 SF; Contingency Response Group: 1507 SM = 16,220 SF; Support Complex: 4,094 SM = 44,062 SF; Demolition part of Bldg 21000: 3,029 SM = 32,600 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	GUAM STRIKE OPS GROUP & TANKER TASK FORCE RENOVATION (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	AJJY113007	9,100

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 273

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
OFFICE FURNITURE	3400	12	200

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	GUAM STRIKE SOUTH RAMP UTILITIES PHASE 1 (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	841-427	AJJY336509	12,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				9,257
POTABLE WATER DISTRIBUTION SYSTEM	LM	3,365	374	(1,259)
ELEVATED WATER TANK	KG	1,500	2,170	(3,255)
SCADA SYSTEM INSTALLLATION	LS			(700)
STORM WATER DRAIN UPGRADE	LS			(275)
SANITARY SEWER COLLECTION SYSTEM, GRAVITY	LM	1,650	762	(1,258)
UPGRADE SANITARY SEWER PUMP STATIONS	EA	2	600,000	(1,200)
COMMUNICATION SYSTEM	LM	2,300	452	(1,040)
SDD & EP ACT 05	LS			(180)
ANTITERRORISM/FORCE PROTECTION	LS			(90)
SUPPORTING FACILITIES				1,320
PAVEMENTS AND SIDEWALKS	LS			(300)
SITE RESTORATION	LS			(470)
ARCHEOLOGICAL MONITORING	LS			(150)
ENVIRONMENTAL REMEDIATION	LS			(400)
SUBTOTAL				10,577
CONTINGENCY (5.0%)				529
TOTAL CONTRACT COST				11,106
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				689
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				423
TOTAL REQUEST				12,217
TOTAL REQUEST (ROUNDED)				12,200)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(31

10. Description of Proposed Construction: Install a new water line loop and 1.5 million gallon elevated water tank. The tank installation shall include valves and other appurtenances to ensure proper operating pressure. Increase the diameter size of the sanitary sewer trunk line starting near the site of the new Global Hawk Hangar through to MH 114 in Flemming Heights. Upgrade pumps, motors and controllers at wastewater lift stations 1881 and 1098. Install communication lines to serve new facilities to be installed in the Main Base and South Ramp area. Upgrade Supervisory Control and Data Acquisition (SCADA) system to include the monitoring and operation via the Base telephone system of PS 1881, PS 1098 and the potable water system, particularly Base water storage tanks, booster pump and wells. Upgrade includes installing SCADA dedicated communication lines along with electrical distribution system. Install a new storm sewer system near the main terminal to ensure emergency responses for new missions are within Air Force requirements. Above ground structures must be able to withstand 190 mile-per-hour typhoon winds for doors, windows, roofs (170 mile-per-hour for other structural elements) and Seismic Zone 4 earthquake criteria. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 0 Tons

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	GUAM STRIKE SOUTH RAMP UTILITIES PHASE 1 (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	841-427	AJJY336509	12,200

11. Requirement: 8515 LM Adequate: 0 LM Substandard: 0 LM

PROJECT: Guam Strike South Ramp Utilities Phase 1 (TFI). (New Mission)

REQUIREMENT: These utility upgrades are required to meet SECDEF direction to posture Andersen as a power hub for a force of intelligence, surveillance, reconnaissance, strike and aerial refueling assets. These upgrades will directly support the capability to strike rapidly and effectively anywhere throughout the Pacific. Upgrades, replacement and/or repair to existing water, wastewater, fire protection system, power, SCADA and communications systems are required to ensure the adequacy and reliability of facilities within Main Base and along South Ramp.

CURRENT SITUATION: Asbestos-cement water lines within main base are constricted and deteriorated. As a result, these water mains are well below the required minimal fire flow pressure of 20 psi and jeopardize the quality of life for personnel living and working at Andersen AFB. Back Gate Lift Station collects and pumps all of the base-wide sewage through a 500-mm (20-inch) force main to Guam Water Authority. Back Gate and Golf Course lift station pumps will not have the capacity to provide adequate pumping due to the additional wastewater volumes associated with the beddown of new Missions. Communications lines to support new mission facilities do not exist. A SCADA system for monitoring and controlling operations for the wastewater lift stations, potable drinking water wells, tanks, reservoirs and potable water booster pumps and other utilities does not exist on base. A new SCADA system will be installed to monitor and/or operate these facilities. The South Ramp area west of the AMC Terminal and Crash Fire Rescue Station is in a low area and experiences substantial flooding due to poor flow control to injection wells. The storm water drainage improvements are required to ensure that standing storm water does not impair the operational capability of emergency response vehicles to the New Mission areas.

IMPACT IF NOT PROVIDED: Insufficient pressures and repeated water line breaks will occur more frequently due to the age of the system. Sufficient fire flows will be unavailable to suppress fires in critical facilities throughout the main base and south ramp. Andersen AFB will continue to exhibit concentrations of asbestos fibers higher than regulatory limit and will be subject to fines from the Guam Environmental Protection Agency. Without improved communications infrastructure, the transfer of information between new mission facilities cannot occur and will severely impact operational capabilities. Continued flooding at the main fire station will impair emergency vehicle response time during wet weather events.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction, leasing) was done. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: LtCol Richard S. Matthews, (671) 366-7101. Water Lines: 3,365 LM = 11,040 LF. Elevated Water Tank: 5.678 CM = 1.5 MGal = 1,500 KGal. Sanitary Sewers: 1,650 LM = 5,413 LF Communications Lines: 2,300 LM = 7,546 LF.

JOINT USE CERTIFICATION: This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation will benefit by this project. This project supports Total Force Integration initiatives.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	GUAM STRIKE SOUTH RAMP UTILITIES PHASE 1 (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	841-427	AJJY336509	12,200

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 366

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	2011	31

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	PRTC - COMBAT COMMUNICATIONS OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	610-127	SAKW123002	9,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				7,298
COMBAT COMMUNICATIONS OPERATIONS FACILITY	SM	1,847	3,836	(7,085)
SDD & EP ACT 05	LS			(142)
ANTITERRORISM / FORCE PROTECTION	LS			(71)
SUPPORTING FACILITIES				700
UTILITIES	LS			(281)
SITE IMPROVEMENTS	LS			(38)
PAVEMENTS	LS			(57)
COMMUNICATIONS	LS			(99)
ENVIRONMENTAL REMEDIATION	LS			(150)
ARCHEOLOGICAL MONITORING	LS			(75)
SUBTOTAL				7,998
CONTINGENCY (5.0%)				400
TOTAL CONTRACT COST				8,398
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				521
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				320
TOTAL REQUEST				9,238
TOTAL REQUEST (ROUNDED)				9,200)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,255

10. Description of Proposed Construction: Construct a reinforced concrete facility. The facility will include a command section, offices, briefing/training rooms, administration area, mechanical and electrical spaces, communications, fire suppression/detection, intrusion detection system, environmental controls, utilities, pavements, parking, associated site improvements, hazardous material abatement, antiterrorism/force protection measures and archeological monitoring and all necessary supporting facilities for a complete and usable facility. Antiterrorism/Force Protection measures will be incorporated into the design, including maximum feasible standoff distances from roads, parking areas, and vehicle unloading areas. The facility must be able to withstand 190 mile-per-hour typhoon winds for doors, windows, roofs (170 mile-per-hour for other structural elements) and Seismic Zone 4 earthquake criteria. This project will comply with DoD antiterrorism force protection requirements per Unified Facilities Criteria.

Air Conditioning: 73 Tons

11. Requirement: 1847 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: PRTC - Combat Communications Operations Facility. (Current Mission)

REQUIREMENT: Project is required to support beddown of a Combat Communications unit at the new PACAF Regional Training Center (PRTC) at Guam Northwest Field. The project will support the re-stationing initiative within the PACAF Theater to meet U.S. and Government of Korea goals outlined in the United States Forces Korea (USFK) Security Policy Initiative (SPI) directives to reduce U.S. forces on the Korean Peninsula. This is a beddown of a mission to a location where no unit of this type exists. 137 unit personnel are located in three temporary facilities

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANDERSEN AIR FORCE BASE, GUAM	4. PROJECT TITLE PRTC - COMBAT COMMUNICATIONS OPERATIONS FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	610-127	SAKW123002	9,200

located in the main base proper of Andersen AFB. Full Operational Capability (FOC) was scheduled for Jan 2010 but cannot occur without this facility. The mission of the 664th Combat Communications Squadron operations (644 CBCS) is to provide communication capabilities for combatant commanders in their Pacific AoR. The 644 CBCS is a self-sufficient organization that provides its own power and shelters, and can deploy to a bare-base location and set up within 24 hours. Some of the capabilities provided by the 644 CBCS include secure and unsecure ultra high frequency communications, land mobile radio communications, SIPR and NIPR email access, defense secure network, secure and unsecure phone lines and satellite communication links that transfer the data to its destination. This facility directly supports the mission by providing space for maintaining unit command, control and training in support of PACOM OPLNS for approximately 141 Airmen assigned to the 644 CBCS.

CURRENT SITUATION: There are no facilities at Northwest Field that can meet this mission requirement.

IMPACT IF NOT PROVIDED: This project is critical to maintaining on-time phasing plans for the 644 CBCS relocating to Northwest Field of Andersen AFB. This facility will provide the only available on-site command, control and training work center required to support the forward deployed combat communications squadron being beddown at Northwest Field. The 644 CBCS has a requirement for an approximately 1850 SM Operations Facility. 644 CBCS requires a Technical Training Facility to setup a complete suite of deployable communications equipment. Current temp facilities have approximately 230 SM of operations space. Most personnel are "hot" desking and are forced to squeeze into small offices. 644 CBCS requires a COMSEC vault and current temp facilities does not meet COMSEC requirements documented in the AFI 33 series. There are no other facilities available on Andersen Air Force Base to meet the CBCS requirement. 644 CBCS cannot meet current UTC tasking timelines (get out of town) due to the non-availability of required operations space. Full Operational Capability (FOC) cannot occur without this facility. Without this facility, the combat communication's mission to rapidly establish and sustain tactical communications command and control systems providing high quality, mission-tailored, communications support to the Air Force and other forces operating within the Pacific theater will be severely limited.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, lease/rent, relocate, and upgrade) was done. There is only one option that will meet the operational and current mission requirement. Therefore, a complete economic analysis was not performed and a certificate of exception has been prepared. The anticipated site remediation and archaeological monitoring costs are expected to be significant, due to the extensive use of the entire NW Field site during and after WWII. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: LtCol Richard S. Mathews (671) 366-7101. PTRC - Combat Communications Operations Facility: 1,847 SM = 19,880 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	PRTC - COMBAT COMMUNICATIONS OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	610-127	SAKW123002	9,200

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 276

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	2011	830
COMM OPERATIONS EQUIPMENT	3400	2011	425

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	PRTC - COMMANDO WARRIOR OPEN BAY STUDENT BARRACKS (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-311	SAKW123001	11,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				7,633
COMMANDO WARRIOR DORMITORY	SM	1,254	5,910	(7,411)
SDD & EP ACT 05	LS			(148)
ANTITERRORISM/FORCE PROTECTION	LS			(74)
SUPPORTING FACILITIES				2,559
UTILITIES	LS			(324)
SITE IMPROVEMENTS	LS			(31)
PAVEMENTS	LS			(1,475)
COMMUNICATIONS	LS			(504)
ENVIRONMENTAL REMEDIATION	LS			(150)
ARCHEOLOGICAL REMEDIATION	LS			(75)
SUBTOTAL				10,192
CONTINGENCY (5.0%)				510
TOTAL CONTRACT COST				10,702
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				664
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				408
TOTAL REQUEST				11,773
TOTAL REQUEST (ROUNDED)				11,800)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(600

10. Description of Proposed Construction: Construct reinforced concrete open bay student basic training dormitory building with laundry, hygiene and shower facilities to accommodate 150 personnel. The facility will include a reception area, ready rooms, equipment wash down areas, storage space, mechanical spaces, fire suppression/detection, environmental controls, utilities, pavements, parking, and all necessary supporting facilities for a complete and usable facility. The facility must be able to withstand 190 mile-per hour typhoon winds for doors, windows, roofs (170 mile-per-hour for other structural elements) and Seismic Zone 4 earthquake criteria. This project will comply with DoD antiterrorism force protection requirements per unified facilities criteria.

Air Conditioning: 55 Tons Grade Mix: E1-E4 150

11. Requirement: 1254 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: PRTC - Construct an Open Bay Student Barracks. (Current Mission)

REQUIREMENT: The project is required to support beddown of the Commando Warrior ground combat skills training school relocating to the new PACAF Regional Training Center (PRTC) at Guam Northwest Field. This is the beddown of a mission to a location where no unit of this type exists. Approximately 8-10 classes will be conducted a year with 150 students per class or 1500 students annually. The Commando Warrior training capability reached IOC capability in March 2008 and it is anticipated that they will achieve FOC status by December 2012.

CURRENT SITUATION: There are no facilities at Northwest Field that can meet this mission requirement.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	PRTC - COMMANDO WARRIOR OPEN BAY STUDENT BARRACKS (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-311	SAKW123001	11,800

IMPACT IF NOT PROVIDED: This project is critical to maintain mission-ready status for the Commando Warrior training mission. Students are currently housed within the Det 5 Space Command compound building #32 unoccupied dormitory space. The Det 5 dormitory was constructed in 1969 and is not configured to meet current Air Force Standards. Six to eight Commando Warrior students are housed in rooms with 23 - 42 SM of space with a single bathroom, which is well below acceptable living conditions. Air Force standards authorize six to eight students 73 - 98 SM. The current situation requires students to travel daily, which on average results in 2 days of lost training in a typical Ground Combat Skills Course, i.e. shortened hands on training events, fewer evaluated exercises, and increased student fatigue. Current situation also results in added fuel and maintenance costs on tactical vehicles and increases the potential for vehicle mishaps especially since all current training venues require students to drive outside the perimeter of the installation. Driver fatigue is an added safety concern due to the duration and intensity of Ground Combat Skills training. This project supports the re-stationing of U.S. forces off of the Korean peninsula. Without this facility at Guam NW Field training will continue to be degraded; quality of life reduced and student safety will be at undue risk. The proposed Commando Warrior Student Barracks will be located adjacent to all proposed training venues increasing training opportunities, reducing student and vehicle fatigue while enhancing quality of training and living conditions.

ADDITIONAL: This project meets the criteria/scope in Air Force Handbook 32-1084, "Civil Engineering Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, lease/rent, relocate, and upgrade) was done. There is only one option that will meet the operational and current mission requirement. Therefore, a complete economic analysis was not performed and a certificate of exception has been prepared. Furthermore, the anticipated site remediation and archaeological monitoring costs are expected to be significant, due to the extensive use of the entire NW Field site during and after WWII. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. LtCol Richard S. Mathews (671) 366-7101. OPEN BAY STUDENT BARRACKS 1,254 SM = 13,492 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. This project supports Total Force Integration initiatives.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	PRTC - COMMANDO WARRIOR OPEN BAY STUDENT BARRACKS (TFI)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-311	SAKW123001	11,800

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 354

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	11	600

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	PRTC - RED HORSE HEADQUARTERS/ENGINEERING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	610-127	SAKW091006	8,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				4,654
HEADQUARTERS/ENGINEERING FACILITY	SM	830	5,445	(4,519)
SDD & EP ACT 05	LS			(90)
ANTITERRORISM/FORCE PROCTECTION	LS			(45)
SUPPORTING FACILITIES				2,270
UTILITIES	LS			(495)
SITE IMPROVEMENTS	LS			(286)
PAVEMENT	LS			(974)
COMMUNICATIONS	LS			(165)
ENVIRONMENTAL REMEDIATION	LS			(200)
ARCHEOLOGICAL MONITORING	LS			(150)
SUBTOTAL				6,924
CONTINGENCY (5.0%)				346
TOTAL CONTRACT COST				7,271
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				451
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				277
TOTAL REQUEST				7,998
TOTAL REQUEST (ROUNDED)				8,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(840

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, masonry walls, standing seam metal roof, fire detection/protection, utilities, site improvements, landscaping, emergency response access pavements, roads and parking, communications support and all other necessary support. The facility must be able to withstand 190 mile-per-hour typhoon winds for doors, windows, roofs (170 mile-per-hour for other structural elements) and Seismic Zone 4 earthquake criteria. This project will comply with antiterrorism/force protection requirements identified in DoD Unified Facilities Criteria.

Air Conditioning: 35 Tons

11. Requirement: 830 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct RED HORSE Headquarters Engineering Facility. (Current Mission)

REQUIREMENT: Project is required to support beddown of the 554 RED HORSE at the new PACAF Regional Training Center (PRTC) at Guam Northwest Field. The mission of the 554th and other RED HORSE Squadrons is to provide the Air Force with a highly mobile civil engineer response force to support contingency and special operations worldwide. The 554 RED HORSE is a self-sufficient organization that provides its own power and shelters, and can deploy to a bare-base location and set up within 24 hours. This facility directly supports the mission by providing space for squadron headquarters and engineering operations for 158 Airmen assigned to the 554 RED HORSE Squadron and Airmen assigned to this Headquarters Engineering Facility. Full Operational Capability (FOC) can not be achieved without this facility.

CURRENT SITUATION: There are no facilities at NW Field that can meet this mission

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1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	PRTC - RED HORSE HEADQUARTERS/ENGINEERING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	610-127	SAKW091006	8,000

requirement. This is a beddown of a mission to a location where no unit of this type exists. The 554 RED HORSE currently has all 158 personnel in place on Guam. Personnel are located in temporary facilities in the main base proper of Andersen AFB and shop space is located in Sea Land containers in NW Field.

IMPACT IF NOT PROVIDED: This project is critical to maintaining on-time phasing plans for units relocating to Northwest Field of Andersen AFB. The project supports re-stationing of forces off of the Korean peninsula. Without this facility, the RED HORSE mission to rapidly establish and sustain engineering support to the Air Force and other forces operating within the Pacific theater will be severely limited. This facility will provide the only available on-site headquarters and engineering work center required to support the 554 RED HORSE squadron being beddown at Northwest Field. Therefore, 13 AF, PACAF and PACOM lose capability to employ RED HORSE construction assets. The Squadron will not be able to prepare equipment/passenger UTCs to meet required 12 hour minimum enabler response time. The Squadron will lack primary training/ops center for C2, design/planning, training, and administrative functions in addition to RED HORSE specific special capabilities listed in AFI 10-209.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, lease/rent, relocate, and upgrade) was done. There is only one option that will meet the operational and current mission requirement. Therefore, a complete economic analysis was not performed and a certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: LtCol Richard S. Mathews (671) 366-7101. PRTC - Red Horse Headquarters/Engineering Facility: 830 SM = 8,530 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.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDERSEN AIR FORCE BASE, GUAM	PRTC - RED HORSE HEADQUARTERS/ENGINEERING FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	610-127	SAKW091006	8,000

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 240

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	2011	650
COMPUTER/COMMUNICATIONS	3400	2011	190

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
AVIANO AIR BASE, ITALY	UNITED STATES AIR FORCES, EUROPE	1.42

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 09	296	3105	732	0	0	0	7	91	32	4,263
END OF FY15	295	3093	730	0	0	0	7	91	32	4,248

7. INVENTORY DATA ($000)

a. Total Acreage: 1,192	
b. Inventory Total as of : (30 Sep 09)	608,000
c. Authorization Not Yet in Inventory:	94,100
d. Authorization Requested in this Program:	29,200
f. Planned in Next Four Years Program:	0
g. Remaining Deficiency:	9,400
h. Grand Total:	740,700

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-753	Air Support Operations Squadron (ASOS) F	3,147	SM	10,200	Jun-09	Sep-10
721-312	Dormitory (144 Rm)	144	RM	19,000	DESIGN-BUILD	
		Total		29,200		

9a. Future Projects: Typical Planned Next Four Years:
None

9b. Real Propery Maintenance Backlog This Installation: ($M) 61

10. Mission or Major Functions: Conducts air and space combat and combat support operations in Europe's Southern Region. Maintains two F-16 fighter squadrons able to conduct regional and expeditionary operations under NATO, SACEUR or national tasking with conventional and non-conventional munitions. Maintains an air control squadron capable of air surveillance, control and communications. Provides command, control and support functions.

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AVIANO AIR BASE, ITALY	AIR SUPPORT OPERATIONS SQUADRON (ASOS) FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-753	ASHE083011	10,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				7,951
UNIT OPERATIONS FACILITY	SM	2,415	3,022	(7,298)
VEHICLE STORAGE	SM	550	452	(249)
FIELD EQUIPMENT STORAGE	SM	109	965	(105)
HAZARDOUS MATERIAL STORAGE	SM	12	1,664	(20)
EXTERIOR WASHRACK	SM	61	784	(48)
ANTITERRORISM/FORCE PROTECTION	LS			(77)
SDD & EPACT05	LS			(154)
SUPPORTING FACILITIES				1,171
UTILITIES	LS			(150)
PAVEMENTS	LS			(262)
SITE IMPROVEMENTS	LS			(303)
COMMUNICATIONS	LS			(300)
DEMOLITION	SM	1,675	39	(65)
PASSIVE FORCE PROTECTION MEASURES	LS			(91)
SUBTOTAL				9,122
CONTINGENCY (5.0%)				456
TOTAL CONTRACT COST				9,578
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				623
TOTAL REQUEST				10,201
TOTAL REQUEST (ROUNDED)				10,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(380.0)

10. Description of Proposed Construction: Facility includes reinforced concrete foundation and floor slabs, reinforced concrete columns and beams, clay tile and plastered masonry exterior walls and pitched clay tile roof. Additional work includes steel stud/gypsum board partition walls, metal doors, double glazed thermal pane windows, HVAC system, fire detection, fire suppression, power distribution, data and telephone pre-wiring, buried communications cable, lightening protection and noise attenuation. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 15 Tons

11. Requirement: 3147 SM Adequate: 0 SM Substandard: 1675 SM

PROJECT: Air Support Operations Squadron (ASOS) Facility. (New Mission)

REQUIREMENT: A new facility is required to adequately support the administrative, operations, training, vehicle and equipment maintenance, and storage requirements for the 8 ASOS at Aviano AB, Italy. Facility must meet the ASOS Design Guide criteria and the base Architectural Design Guide standards. This project supports the Air Force Transformation initiative to support the collocation of the ASOS with its air support for aligned Army units. The ASOS provides command and control of close air support and maintains mission-ready air support operations personnel, radios, vehicles and mobility equipment.

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AVIANO AIR BASE, ITALY	AIR SUPPORT OPERATIONS SQUADRON (ASOS) FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-753	ASHE083011	10,200

CURRENT SITUATION: The facility the 8 ASOS currently uses is scheduled for demolition as soon as they move out. There is no additional facility space available on Aviano AB that can be reconfigured/renovated to support the operational and maintenance requirements associated with the 8 ASOS mission.

IMPACT IF NOT PROVIDED: The current facility is already scheduled for demolition and barely meets the absolute minimum operational requirements for the 8 ASOS mission. Failure to provide an adequate facility will continue to constrain 8 ASOS operations and maintenance critical to providing close air support. Without adequate space, valuable assets will remain exposed to the environment resulting in premature deterioration and increased cost.

ADDITIONAL: This project meets the criteria/scope specified in the Air Force Handbook 32-1084, Facility Requirements, and the Air Force ASOS Design Guide. Design guide is in net square footage so office areas were increased by 30 percent and non-office area by 25 percent. This project is not eligible for NATO funding. An economic analysis was not completed because there is only one option that will meet the requirement; new construction. A certificate of exception has been prepared. Project must be accomplished in accordance with Italian laws and norms. This project will require US/Italian Mixed Commission approval. Design and construction will meet the stricter of Italian or US standards. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Design and siting will be in compliance with the United States Air Force Protection Guidelines. ASOS: 2,415 SM = 25,995 SF; VEHICLE STORAGE: 550 SM = 5,920 SF. BASE CIVIL ENGINEER: Lt Col Theodore Bloomer. Commercial: 011-39-434-30-5720.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .7212

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

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AVIANO AIR BASE, ITALY	AIR SUPPORT OPERATIONS SQUADRON (ASOS) FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27418	141-753	ASHE083011	10,200

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	612
(b) All Other Design Costs	306
(c) Total	918
(d) Contract	632
(e) In-house	286
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	12 MAR

* 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)
FURNISHINGS	3400	2011	260
COMMUNICATIONS EQUIPMENT	3080	2011	120

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AVIANO AIR BASE, ITALY	DORMITORY (144 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	ASHE123000	19,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				14,100
DORM AM PP/PCS-STD	SM	4,752	2,885	(13,710)
FORCE PROTECTION/ANTI-TERRORISM	LS			(130)
SDD & EPACT05	LS			(260)
SUPPORTING FACILITIES				2,390
DEMOLITION	SM	18,345	25	(459)
UTILITIES	LS			(682)
PAVEMENTS	LS			(363)
SITE IMPROVEMENTS	LS			(532)
EXTERIOR COMMUNICATIONS SUPPORT	LS			(354)
SUBTOTAL				16,489
CONTINGENCY (5.0%)				824
TOTAL CONTRACT COST				17,314
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,125
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				660
TOTAL REQUEST				19,099
TOTAL REQUEST (ROUNDED)				19,000

10. Description of Proposed Construction: One three-story 144 room dormitory that meets the Base Architectural Design Guide standards, the Air Force Unaccompanied Housing Design Guide standards, and applicable Italian laws and norms. Facility to be at least LEED Silver Certifiable when complete. Facility includes reinforced concrete foundation and floor slabs, reinforced concrete beams and columns, plaster covered masonry walls, and pitched tile roof. The 144 Room Dormitory includes Dorms-4-Airmen modules (as per Dormitory Design Guide), laundry room, storage room, lounge areas, all supporting utilities, and all site improvements to include parking. Force protection measures include requirements for AT/FP blast protection and AT/FP progressive collapse mitigation to include but not limited to standoff construction, reinforced walls, laminated glass, and exterior lighting. Facilities to be "demolished" (returned to Italy) are the 3 dormitories in Area A2 to include 'pickeling' of each in preparation to turning them over to the Italian government at the time of A2 closure (removal from real property records).

Grade Mix: E1-E4 144

11. Requirement: 747 RM Adequate: 612 RM Substandard: 135 RM

PROJECT: Construct 144 RM Dormitory (Current Mission)

REQUIREMENT: Major Air Force objectives are to provide for the safety and welfare of all airmen and to divest itself of unwanted assets. Area A2 has such major AT/FP violations that only a fraction of the facilities are still in use due to the risk to all airment living and working in this area. Goal is to eliminate or relocate all functions in A2 and return this area to Italy. Construction of the 144 room dormitory (in accordance with the Air Force 2008 Dormitory Master Plan) removes all A2 dorm residents as 'soft targets' at risk in the event of a terrorist incident and also eliminates the major road block to "closing" Area A2 by relocating all dorm residents in A2 to the dormitory campus on the main part of the

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION AVIANO AIR BASE, ITALY		4. PROJECT TITLE DORMITORY (144 RM)	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 721-312	7. PROJECT NUMBER ASHE123000	8. PROJECT COST ($000) 19,000

base. Facility to be at least LEED Silver Certifiable when complete.

CURRENT SITUATION: Area A2 is a separate area from the main part of the base (5 kilometers away), provides limited assets for base operations, and has major AT/FP violations that cannot be reasonably eliminated. The 3 dormitories in A2 sit within 10 feet of the area boundary with 2 dormitories sitting within 15 feet of a major public road. Every day the residents of these dormitories are exposed as 'soft targets' at risk in the event of a terrorist incident. Because of the severity of the force protection violations in A2, one dormitory has been closed completely and only 50% of a second dormitory is used (the rooms on the side away from the street). Even with these changes, these 3 dormitories do not come close to meeting USAFE AT/FP requirements. In addition there are no reasonable measures that can be taken to lessen or eliminate the violations. The dormitories in A2 are also the primary road block to divesting of this entire area and returning it to Italy. As verified by the Air Force Dormitory Master Plan, the base has insufficient facilities on the main dormitory campus in Area F to adequately accomodate the permanent party unaccompanied enlisted personnel living in the A2 dormitories. Construction of a 144 room dormitory on the main dormitory campus in Area F would eliminate this shortfall and would eliminate putting airmen in a position as 'soft targets' at risk in the event of a terrorist incidient.

IMPACT IF NOT PROVIDED: Airmen still being billeted in the A2 dormitories will remain 'soft targets' at risk in the event of a terrorist incident. The A2 dormitories will remain the major road block to Aviano AB closing A2 and divesting itself of these assets by turning them over to Italy and thus, eliminating the major AT/FP violations. In addition, the cost to secure this area and to maintain all the facilities in this area will continue to be a burden on base resources and provide limited return on investment in support of base operations.

ADDITIONAL: All known alternatives were considered during the development of this project. No other option could meet mission requirements. An economic analysis is being performed and results will be incorporated as soon as available. This project is identified as a requirement in the 2008 Aviano AB Dorm Master Plan. This project meets the criteria/scope specified in the new dormitory design standard known as "Dorms-4-Airmen" modules. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Facility to be at least LEED Silver Certifiable when complete. This project is not NATO eligible. FY2009 Unaccompanied Housing RPM Conducted: $1,198K; FY10 Unaccompanied Housing RPM Conducted: $1,167K; Future Unaccompanied Housing PRM requirements (estimated): FY11: $67K; FY12: None; FY13: None; FY14: None. BASE CIVIL ENGINEER: Lt Col Theodore B. Bloomer, 011-39-434-30-5720/314-632-5720. Dormitory: 4,752 SM = 51,132 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .7212

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION AVIANO AIR BASE, ITALY	4. PROJECT TITLE DORMITORY (144 RM)	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	ASHE123000	19,000

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 510

(4) Construction Contract Award 11 APR

(5) Construction Start 11 JUL

(6) Construction Completion 13 JUL

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

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

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2 AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION KUNSAN AIR BASE KOREA	COMMAND: PACIFIC AIR FORCES	5. AREA CONST COST INDEX 1.07

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09	181	2,173	29	0	0	0	0	0	0	2,383
END FY 2015	181	2,183	30	0	0	0	0	0	0	2,394

7. INVENTORY DATA ($000)

a. Total Acreage:	2,557	
b. Inventory Total as of : (30 Sep 09)		1,579,092
c. Authorization Not Yet in Inventory:		16,400
d. Authorization Requested in this Program:		7,500
e. Planned in Next Four Years Program:		13,000
f. Remaining Deficiency:		110,100
g. Grand Total:		1,726,092

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
171-212	DMT Flight Simulator	1,349	SM	$7,500	May-09	Sep-10
		Total		$7,500		

9a. Future Projects: Typical Planned Next Four Years:

211-152	Maint Complex, Ph 2-Accessory Shop	2,443	SM	$13,000
		Total		$13,000

9b. Real Propery Maintenance Backlog This Installation

10. Mission or Major Functions: A fighter wing supporting two F-16 fighter squadrons, a six squadron mission support group and a maintenance group, as well as a medical group.

11. Outstanding pollution and Safety (OSHA Deficiencies):

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

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KUNSAN AIR BASE, KOREA (REPUBLIC OF)	CONSTRUCT DMT FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	171-212	MLWR093183	7,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				5,216
FLIGHT SIMULATOR FACILITY	SM	1,349	3,757	(5,069)
SDD & EP ACT 05	LS			(97)
ANTI-TERRORISM/FORCE PROTECTION	LS			(50)
SUPPORTING FACILITIES				1,487
UTILITIES	LS			(278)
PAVEMENTS	LS			(208)
SITE IMPROVEMENTS	LS			(165)
DEMOLITION	SM	631	126	(80)
SPECIAL FOUNDATIONS	LS			(241)
COMMUNICATIONS SUPPORT	LS			(310)
FUEL OIL TANK/BIKE RACK/TRASH ENCLOSURE	LS			(115)
PASSIVE FORCE PROTECTION MEASURES	LS			(90)
SUBTOTAL				6,702
CONTINGENCY (5.0%)				335
TOTAL CONTRACT COST				7,037
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				457
TOTAL REQUEST				7,495
TOTAL REQUEST (ROUNDED)				7,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(26,150.0)

10. Description of Proposed Construction: Construct a new 1,349 SM, Distributed Mission Training (DMT) flight simulator building with concrete foundation and floor slab, masonry walls, structural steel frame, and metal roof system. Facility will contain a 61' X 80' X 15' high bay for a four ship F-16C flight simulator, briefing rooms, Visual Threat Recognition Avoidance Trainer (VTRAT) room, admin and records space, classrooms, toilet facilities, trainer maintenance, storage, other indirect supporting spaces, and office space for contractor and military personnel. The facility must be designed to protect the classified nature of the training to be accomplished. Also includes utilities, security, access roads, anti-terrorism/force protection measures and all other necessary support to complete the project. This project demolishes the existing flight simulator facility (631 SM). This project will comply with DoD antiterrorism/force protection requirements per the unified facilities criteria.

Air Conditioning: 65 Tons

11. Requirement: 1349 SM Adequate: 0 SM Substandard: 631 SM

PROJECT: Construct a new flight simulator facility. (Current mission)

REQUIREMENT: An adequately sized and configured flight simulator training facility is necessary to support aircrew training activities critical for base flying operations. It is also required to house upcoming new aircraft flight simulators and other special training devices. The facility must include administration and records, classrooms, briefing rooms, toilet facilities, trainer maintenance, storage and other indirect supporting spaces to support training pilots on how to

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA (REPUBLIC OF)	4. PROJECT TITLE CONSTRUCT DMT FLIGHT SIMULATOR FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	171-212	MLWR093183	7,500

use the aircraft in combat. The upcoming four F-16C Mission Training Centers (MTCs) will be networked to support multi-ship training.

CURRENT SITUATION: The existing flight simulator facility, built in 1972, is severely old and deteriorated due to age and no major repairs. The existing facility is not large enough for three F-16 MTCs currently assigned and is very crowded due to its small size (62% compared with the current facility design criteria). The building exterior and interior finishes, such as floor, walls, ceiling tiles and roof, have severely worn out and require immediate replacement to meet current standards. Doors and windows are dilapidated and energy efficiency has diminished significantly as well as building security. The old and inadequate electrical lighting systems make the inside area dark. The noise level in the simulator bay is too high for the student and instructor to communicate effectively. This inadequate flight simulator facility represents a serious deficiency toward pilot readiness.

IMPACT IF NOT PROVIDED: Without this project, the vital aircrew training requirements will continue to be performed in substandard conditions, thus seriously compromising pilot readiness and mission in this main in-place warfighting base on the Korean peninsula. Furthermore it could result in significant degradation of operational capability and increase the potential for a serious mishap. Also new DMT equipment scheduled to arrive in FY 2012 would have to be placed in storage due to lack of space, unless a new Flight Simulator Training Facility is provided.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". All known alternatives were considered during the development of this project. No other option could meet mission requirements; therefore, no economic analysis was performed. A certificate of exception will be prepared. This project is eligible for the Host Nation Funded Construction (HNFC) Program in the category of Combined Defense Improvement Program (CDIP). However, due to the low level of CDIP funding (about $20M annually for Air Force) and many direct mission facility requirements, this project will not be funded within a reasonable time frame, over six years. Additionally, there are very real funding constraints placed on the HNFC program by the Land Partnership Plan (LPP) and Yongsan Relocation. This situation should persist until at least 2015. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: LtCol Kelly Harshbarger, 011-826-3470-4095. Simulator Training Facility: 1,349 SM = 14,520 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: WON 1025.6971

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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KUNSAN AIR BASE, KOREA (REPUBLIC OF)	CONSTRUCT DMT FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	171-212	MLWR093183	7,500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-MAY-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	29-JAN-10
(e) Date Design Complete	30-SEP-10
(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	450
(b) All Other Design Costs	225
(c) Total	675
(d) Contract	563
(e) In-house	112
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 APR
(6) Construction Completion	12 OCT

* 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)
FURNITURE, FURNISHINGS & EQUIP	3400	2011	150
DMT FLIGHT SIMULATOR	3800	2011	26,000

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
AL UDEID AB, QATAR	AIR COMBAT COMMAND (AFCENT)	1.33

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	EN	CIV	OFF	ENL	CIV	TOTAL
AS OF	CLASSIFIED DATA									Note 1
END FY 2010	CLASSIFIED DATA									

7. INVENTORY DATA ($000)

a. Total Acreage:	Not US Owned Installation Note 2	n/a
b. Inventory Total as of : (30 Sep 09)		n/a
c. Authorization Not Yet in Inventory:		n/a
d. Authorization Requested in this Program:		62,300
f. Planned in Next Four Years Program:		0
g. Remaining Deficiency:		TBD
h. Grand Total:		62,300

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
721-312	Blatchford-Preston Complex Ph III	24,205 SM	62,300	Jun-10	Sep-10

9a. Future Projects: Typical Planned Next Four Years:

Unknown at this time

9b. Real Property Maintenance Backlog This Installation: ($M) n/a

10. Mission or Major Functions: 379 Air Expeditionary Wing - a multi-purpose wing that supports a range of missions to include: fighter, airlift, refueling, intelligence, surveillance and reconnaissance; Combined Air Operations Center; the Aerial Port Control Center, Expeditionary Air Mobility Squadron and an Expeditionary RED HORSE Group.
NOTE 1: Personnel numbers at a contingency location are classified, therefore not provided.
NOTE 2: Not a US owned installation therefore we do not have real property data.
NOTE 3: Some projects may be funded by host nation but are identified in the Al Udeid Master Plan

11. Outstanding Pollution and Safety (OSHA Deficiencies):
- a. Air pollution
- b. Water Pollution
- c. Occupational Safety and Health
- d. Other Environmental

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AL UDEID AB , QATAR	BLATCHFORD-PRESTON COMPLEX, PHASE III

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	ALUA073006B	62,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				51,323
BILLETING FACILITIES	SM	18,566	2,200	(40,845)
WAREHOUSES	SM	5,150	1,465	(7,545)
MEDICAL ADMINISTRATIVE FACILITY	SM	489	2,850	(1,394)
ANTITERRORISM/FORCE PROTECTION	LS			(513)
SDD & EPACT 05	LS			(1,026)
SUPPORTING FACILITIES				4,400
UTILITIES	LS			(1,600)
SITE IMPROVEMENTS	LS			(2,800)
SUBTOTAL				55,723
CONTINGENCY (5.0%)				2,786
TOTAL CONTRACT COST				58,509
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				3,803
TOTAL REQUEST				62,312
TOTAL REQUEST (ROUNDED)				62,300
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(4,900.0)

10. Description of Proposed Construction: Construct dormitories with concrete foundations and masonry walls. Construction will also include a Medical Administrative Facility with concrete foundations and masonry walls and medical and furnishings management warehouses with concrete foundations and CMU walls with metal superstructure. Project includes all site work, infrastructure/utilities, communications, fire protection/suppression and force protection required to make facilities complete and usable. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facilities Criteria.

11. Requirement: 4900 RM Adequate: 2548 RM Substandard: 4080 RM

PROJECT: BLATCHFORD-PRESTON COMPLEX, PHASE III

REQUIREMENT: Al Udeid has been identified by CENTCOM as an enduring location. Current contingency-standard billeting and support facilities, constructed in 2003, are overcrowded and failing and must be replaced with permanent facilities. The base requires billeting for a projected steady-state population of 6,200 personnel comprised of rotational and permanent-party personnel. Dormitories are being constructed to allow flexibility in room assignments, with rotational personnel assigned 2+2, permanent-party assigned 1+1 and senior personnel (O-6, Chief) assigned 1+0. Total requirement is 4,900 rooms in 25 dormitories. The two dormitories in Phase III will result in 15 of 25 required dormitories. Additional support facilities provided by Phase III include a furnishing management warehouse (to store spare beds, mattresses, chairs, night tables and wardrobes), a medical administrative facility and a medical warehouse.

CURRENT SITUATION: 13 of 25 required dormitories have previously been funded (9 by FY 2003 MILCON as Millennium Village, 2 by the Host Nation as part of CENTCOM Forward Headquarters and 2 by FY 2010 MILCON as BPC Phase II in FY10). Remaining base population is still housed in temporary contingency-standard facilites

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION AL UDEID AB , QATAR	4. PROJECT TITLE BLATCHFORD-PRESTON COMPLEX, PHASE III	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	ALUA073006B	62,300

constructed in 2003. Those facilities are now past their intended lifespan and are failing in the harsh Qatari climate. The temporary facilities are geographically separated from the permanent dormitories, causing operational inefficiencies (especially in support facilities now duplicated or split between Coalition Compound and BPC) and creating a division, both real and perceptual, between those living in temporary quarters and those in the newer, permanent-standard, facilities.

IMPACT IF NOT PROVIDED: If Phase III and later phases are not funded aproximately half the base population will be forced to live in substandard temporary quarters. The base populace will be split between two living areas, base support will be forced to operate inefficiently from split locations and the contingency-standard temporary facilities will continue to deteriorate. The temporary facilities will require replacement at an estimated cost of $750,000 per facility as they fail. Total replacement will be required every five to seven years at a cost of $48 million per replacement cycle.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. An analysis of reasonable options for accomplishing this project was completed. It indicates there is only one option that will meet operational requirements; new construction. An economic analysis was not completed. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. This project is phase three of multiple planned phases and would result in 15 of 25 required permanent dormitories. The project is supported by CENTCOM and is on the Master Plan Priority List (MPPL). The Implementing Agreement signed in November 2002 between the United States Government and the Government of Qatar does not cover all construction. It did specify that the United States was responsible to fund Blatchford-Preston (Millennium Village) facilities. In 2008, Millennium Village was renamed Blatchford-Preston Complex by direction of COMUSCENTAF. Civil Engineer: Lt Col Michal Holliday; DSN 318-437-2152: (Blatchford-Preston Complex, billeting facilities 18,556 SM = 199,843 SF; furnishings warehouse 3,977 SM = 42,808 SF; medical administrative facility 489 SM = 5,264 SF; medical warehouse 1,150 SM = 12,378 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 current 379 AEW, CAOC and SOCCENT HQ requirements as provided in the Al Udeid AB Implementing Agreement with the Government of Qatar.

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AL UDEID AB , QATAR	BLATCHFORD-PRESTON COMPLEX, PHASE III

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	ALUA073006B	62,300

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	01-JUN-09
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2010	15%
* (d) Date 35% Designed	15-JAN-10
(e) Date Design Complete	30-SEP-10
(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	3,738
(b) All Other Design Costs	1,869
(c) Total	5,607
(d) Contract	4,738
(e) In-house	869
(4) Construction Contract Award	11 FEB
(5) Construction Start	11 MAR
(6) Construction Completion	13 MAR

* 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	3080	2012	1,500
FURNISHINGS	3400	2012	3,400

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1. COMPONENT AIR FORCE	**FY 2011 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
RAF MILDENHALL UNITED KINGDOM	UNITED STATES AIR FORCES IN EUROPE	1.13

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 09										
END FY 2015	149	1623	692	0	0	0	148	967	160	3,739

7. INVENTORY DATA ($000)		
a. Total Acreage:	1,123	
b. Inventory Total as of : (2007 - Replacement Cost)		1,214,621
c. Authorization Not Yet in Inventory:		0
d. Authorization Requested in this Program:		15,000
e. Planned in Next Four Years Program:		4,500
f. Remaining Deficiency:		
g. Grand Total:		1,234,121

8. PROJECTS REQUESTED IN THIS PROGRAM:		0		$10,800		
CATEGORY				COST	DESIGN STATUS	
CODE	PROJECT TITLE	SCOPE		$000	START	CMPL
112-211	Construct Extension Taxiway Alpha	40,163	SM	15,000	DESIGN-BUILD	
				15,000		

9a. Future Projects: Typical Planned Next Three Years:			0		$4,500		
CATEGORY					COST	DESIGN STATUS	
CODE		PROJECT TITLE	SCOPE		$000	START	CMPL
730-831	FY13	Main Gate Complex, Phase I	9,550	SM	4,500		

9b. Real Propery Maintenance Backlog This Installation: ($M)	86

10. Mission Functions: The 100th Air Refueling Wing (ARW) is a large, diverse organization which conducts air refueling and combat support operations throughout the European and African areas of responsibility. Located at RAF Mildenhall in the United Kingdom, the wing directs reception and mobilizes for contingency operations. The 100th ARW refuels U.S. and partner nation military aircraft over a span of more than 20 million square miles using its 15 assigned KC-135 Stratotankers. The wing further supports more than 10,000 military, civilian, dependent and retiree personnel, including 3rd Air Force and four associated partner units.

11. Outstanding pollution and Safety (OSHA Deficiencies:	None
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 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAF MILDENHALL, UNITED KINGDOM	EXTEND TAXIWAY ALPHA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	112-211	QFQE063007	15,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				8,022
TAXIWAY PAVEMENT AND LIGHTING	SM	40,163	196	(7,872)
SDD & EPACT05	LS			(150)
SUPPORTING FACILITIES				5,422
UTILITY RELOCATION	LS			(1,036)
SITE IMPROVEMENTS/AIRFIELD DRAINAGE	LS			(2,600)
DEMOLITION - ROAD	SM	5,300	55	(292)
DEMOLITION - FENCE	LM	700	30	(21)
PERIMETER ROAD	LS			(527)
FENCING	LS			(896)
AIRFIELD MARKINGS	LS			(50)
SUBTOTAL				13,443
CONTINGENCY (5.0%)				672
TOTAL CONTRACT COST				14,116
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				353
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				538
TOTAL REQUEST				15,006
TOTAL REQUEST (ROUNDED)				15,000

10. Description of Proposed Construction: Construction of 75 foot wide concrete extension of Taxiway Alpha at the end of runway overrun (29 end) connecting with the existing Taxiway Alpha. Concrete to be suitable to support C5, C17, and KC10 aircraft with Load Classification Number (LCN) of 75, with a 25 foot asphalt shoulder. Work to include all utilities and utility relocation and taxiway edge lights, subgrade and subbase work, drainage, airfield lighting and other necessary airfield support as specified in USAFEI 32-1007 & NATO STANAG 3158. Additionally, the perimeter fence and road need to be demolished and fence replaced in new location along with new perimeter road with cinder shoulder. All work carried out is to comply with current Base, Host Nation, USAFE, NATO and NFPA standards, and include antiterrorism/force protection requirements identified in DoD unified facilities criteria.

11. Requirement: 40163 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Extend Taxiway Alpha (Current Mission).

REQUIREMENT: Adequate taxiways are required to provide a safe and efficient route for aircraft to taxi to and from the runway, aircraft parking pads or apron. Taxiway alpha extension is required to improve air base operability by allowing all aircraft direct access to the usable underrun, eliminating the need to back-taxi. The extension will also expedite the strategic air traffic flow during operations like DESERT STORM, where aircraft were landing and taking-off every 15 minutes. New taxiway must be NATO-standard, 75-ft wide asphalt concrete tarmac designed and constructed to support the heaviest aircraft required to use the taxiway. Must include taxiway lighting system and associated electrical support. New perimeter road must be standard two-lane tarmac connected to and matching existing. New fence must be NATO-standard perimeter fencing to connect to existing. New Anti-

1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAF MILDENHALL, UNITED KINGDOM	EXTEND TAXIWAY ALPHA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	112-211	QFQE063007	15,000

Vehicle Barrier (AVB) cable must be installed to match and connect with existing AVB. Area affected by new taxiway construction, perimeter road relocation, fence, AVB, and associated support facilities must be landscaped to return to existing, be brought up to security forces boundary area standards, or required to meet airfield management requirements for finished areas adjacent to operational aircraft surfaces.

CURRENT SITUATION: Departing aircraft are required to back-taxi for the remaining 1000 ft of the runway in order to reach the farthest useable area of the active runway. This causes delays in aircraft operations as aircraft back-taxiing do not allow any other aircraft to take-off/land on the runway. The final location of the aircraft prior to take-off is also effectively shortened as the space required to position for take off is farther into the useable area of the runway. The overruns are used on a regular basis to meet the minimum takeoff distances. These aircraft have to back-taxi to the end of the overrun. This is not a problem for "single" aircraft; however, it is extremely difficult and poses an unnecessary safety risk when launching in large formations. For example, KC-135s, which normally use 20 second intervals between aircraft during formation takeoffs, currently require 170 second intervals. Since the aircraft cannot begin to move into the overrun until the preceding aircraft departs, lengthy rejoin problems occur in flight (i.e. a large formation might stretch out for over 100 miles while aircraft rejoin into formation. Current runway length, including overrun from the 29 end, is 10221 ft, however only 9221 ft is currently available to launch aircraft without back-taxiing.

IMPACT IF NOT PROVIDED: If this project is not executed the runway will continue to require all aircraft to back-taxi and take-off with an operationally shortened runway. The back-taxiing requires greater monitoring by airfield management and terminal air traffic control personnel during aircraft movement. During increased ops tempo, the minor delays due to back-taxiing and minor decreases in load capacity that each aircraft incurs are compounded exponentially and may cause significant negative impacts to the primary mission of the 100 Air Refueling Wing.

ADDITIONAL: This project may be eligible for NATO Infrastructure common funding; the project has been proposed for inclusion in the NATO capability package 9A-1301 AAR. Current funding issues with NATO will require submission of a prefinancing statement. This project meets the criteria specified in Air Force Handbook 32-1084, "Civil Engineering Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (extend taxiway and status quo operations) was done. It indicates a taxiway extension is the only option that meets operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders.
Base Civil Engineer: Lt Col MATT E. GREENE, P.E., Comm. 011-44-1638-54-2205.
Extend Taxiway Alpha: 40,163 SM = 432,311 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .5905

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

1. COMPONENT AIR FORCE	FY 2011 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAF MILDENHALL, UNITED KINGDOM	EXTEND TAXIWAY ALPHA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	112-211	QFQE063007	15,000

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 450

(4) Construction Contract Award 11 FEB

(5) Construction Start 11 APR

(6) Construction Completion 12 MAY

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

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

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WORLDWIDE UNSPECIFIED	UNSPECIFIED MINOR CONSTRUCTION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
91211	962-11	PAYZ110003	18,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				18,000
UNSPECIFIED MINOR CONSTRUCTION	LS			(18,000)
SUPPORTING FACILITIES				0
SUBTOTAL				18,000
TOTAL CONTRACT COST				18,000
TOTAL REQUEST				18,000
TOTAL REQUEST (ROUNDED)				18,000

10. Description of Proposed Construction:

11. Requirement: Adequate: Substandard:

PROJECT: As required.

REQUIREMENT: Minor construction projects authorized by 10 U.S. Code 2805 are military construction projects with an estimated funded cost between $750,000 and $2,000,000; however projects with an estimated funded cost of up to $3,000,000 may be funded under this authority to correct life, health, or safety deficiencies. This package provides a means of accomplishing urgent projects that are not identified but which are anticipated to arise during FY11. Included would be projects to support new mission requirements, support of new equipment and concepts, and other essential support to Air Force missions and functions that could not wait until availability of FY11 Military Construction Program funds.

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1. COMPONENT	FY 2011 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WORLDWIDE UNSPECIFIED	PLANNING AND DESIGN

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
91211	102-11	PAYZ110002	66,336

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				66,336
PLANNING AND DESIGN	LS			(66,336)
SUPPORTING FACILITIES				0
SUBTOTAL				66,336
TOTAL CONTRACT COST				66,336
TOTAL REQUEST				66,336
TOTAL REQUEST (ROUNDED)				66,336

10. Description of Proposed Construction:

11. Requirement: Adequate: Substandard:

PROJECT: As required.

REQUIREMENT: These planning and design funds are required to complete the design of facilities in the FY12 Military Construction Program, initate design of facilities in the FY13 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-time to be included in subsequent Military Construction programs. Also provide funds for value engineering and for the support of design and construction management of projects that are funded by foreign governments and for design of classified and special programs. In addition, these funds are also used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.

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