PE NUMBER: 0901538F
PE TITLE: FIRST

Exhibit R-2, RDT&E Budget Item Justification

DATE **February 2005**

BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0901538F FIRST

	Cost ($ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
	Total Program Element (PE) Cost	12.620	15.594	17.531	27.528	16.228	16.589	17.020	17.263	Continuing	TBD
5036	Financial Information Resource System (FIRST)	12.620	15.594	12.531	16.228	16.228	16.589	17.020	17.263	Continuing	TBD
5179	Defense Enterprise Accounting Management System - AF (DEAMS)	0.000	0.000	5.000	11.300	0.000	0.000	0.000	0.000	0.000	0.000

(U) A. Mission Description and Budget Item Justification

The Financial Information Resource System (FIRST) is a software development effort that will provide an integrated, modern, seamless financial management system that enables authorized users (from Air Staff to base level) to plan, program, and execute their budgets. FIRST is ultimately envisioned to be the foundation for the Air Force's Planning, Programming, Budgeting, and Execution (PPBE) system. FIRST will be developed using the Spiral Development approach and maximize use of Commercial and Government Off The Shelf (COTS & GOTS) products. The capabilities include Enterprise Data View, Budget Formulation, Funds Management, Budget Execution, and Cost Modeling. Additional increments of FIRST will continue development of legacy system's capability contained in the Automated Business Services System (ABSS) and the Obligation Adjustment Reporting System (OARS). FIRST will be compliant with the Clinger-Cohen Act, Business Management Modernization Program (BMMP), the Joint Technical Architecture (JTA), Global Combat Support System-Air Force (GCSS-AF) Integration Framework, Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR) guidelines, and incorporate Public Key Infrastructure initiatives (such as electronic signature capability). FIRST will be integrated onto the GCSS-AF architecture.

Enterprise Data View provides flexible, easy-to-use report generation and decision support tools for Air Force managers, incorporates the new DoD Standard Fiscal Codes (SFC) into FIRST, and delivers timely budget execution data to minimize the budget community's dependency on formal end-of-month accounting reports. The Budget Formulation capability provides for programming, budget formulation, budget justification processes and documentation. It encompasses the budget exercise process, which affects all organizational levels and all users, and is based on core financial and selected program information used to build the Air Force budget. Funds Management encompasses the methods and procedures for maintaining control over the status of adjustments to the President's Budget (PB), receipt and distribution of program authority and budget authorizations in accordance with established business rules. Budget Execution provides analysis tools and execution data to budget offices at all levels. It includes analysis tools for monitoring budget execution information, determining unfunded requirements, and fiscal year-end processing. Cost Modeling provides interactive cost modeling capability for manpower, flying hours, civilian pay, and other similar model driven costs based on resource information. Additionally, program will continue to incorporate legacy systems as required and establish a financial enterprise data warehouse capability for the Air Force.

Defense Enterprise Accounting Management System (DEAMS) is a COTS-based software configuration effort to provide a modern accounting and finance system. The system will replace existing legacy systems to provide core management functions consistent with financial management laws, regulations and policy, general ledger, funds management, payments, receivables, cost and revenues, and fiduciary reporting. The AF increment will build on a USTRANSCOM pilot and enhance

Exhibit R-2, RDT&E Budget Item Justification

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BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0901538F FIRST

that pilot to include AF investment funding and Air Force Working Capital Fund (AFWCF). DEAMS will be compliant with the Clinger-Cohen Act, Business Management Modernization Program (BMMP), and Global Combat Support System-Air Force (GCSS-AF). The COTS product will be Joint Federal Management Improvement Program (JFMIP) compliant. DEAMS will support and incorporate capabilities that were planned for future increments in FIRST. DEAMS will support elimination of duplicative and unneccessary systems. DEAMS provides the capability to be utilized by other services within the DoD.

This program is in Budget Activity 7, Operational System Development, because the program modernizes Automated Information Systems (AIS).

(U) B. Program Change Summary ($ in Millions)

		FY 2004	FY 2005	FY 2006	FY 2007
(U)	Previous President's Budget	13.284	15.732	13.233	13.839
(U)	Current PBR/President's Budget	12.620	15.594	17.531	27.528
(U)	Total Adjustments	-0.664	-0.138		
(U)	Congressional Program Reductions				
	Congressional Rescissions		-0.138		
	Congressional Increases				
	Reprogrammings	-0.267			
	SBIR/STTR Transfer	-0.397			

(U) Significant Program Changes:

FY 2006 and 2007 increases are for integration of the DEAMS COTS based accounting system into the FIRST.

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0901538F FIRST

PROJECT NUMBER AND TITLE
5036 Financial Information Resource System (FIRST)

Cost ($ in Millions)		FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5036	Financial Information Resource System (FIRST)	12.620	15.594	12.531	16.228	16.228	16.589	17.020	17.263	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

FIRST is a software development effort that will provide an integrated, modern, seamless financial management system that enables authorized users (from Air Staff to base level) to plan, program, and execute their budgets. FIRST is ultimately envisioned to be the foundation for the Air Force's Planning, Programming, Budgeting, and Execution (PPBE) system. FIRST will be developed using the Spiral Development approach and maximize use of Commercial Off The Shelf (COTS) products. The core capabilities include Enterprise Data View (formerly called Acquire Accounting), Budget Formulation, Funds Management, Budget Execution, and Cost Modeling. FIRST will also continue development of legacy system's capability contained in the Automated Business Services System (ABSS) and the Obligation Adjustment Reporting System (OARS). In accordance with Air Force Financial Management direction, the Budget Enactment Management Information System (BEMIS) legacy system functionality will not be incorporated into FIRST. FIRST will be compliant with the Clinger-Cohen Act, Business Management Modernization Program (BMMP), the Joint Technical Architecture (JTA), Global Combat Support System-Air Force (GCSS-AF) Integration Framework, Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR) guidelines, and incorporate Public Key Infrastructure initiatives (such as electronic signature capability). FIRST will be integrated onto the GCSS-AF architecture.

Enterprise Data View (formerly Acquire Accounting) provides flexible, easy-to-use report generation and decision support tools for Air Force Materiel Command financial managers and delivers timely budget execution data to minimize the budget community's dependency on formal end-of-month accounting reports. The Budget Formulation capability provides for programming, budget formulation, budget justification processes and documentation. It encompasses the budget exercise process, which affects all organizational levels and all users, and is based on core financial and selected program information used to build the Air Force budget. Funds Management encompasses the methods and procedures for maintaining control over the status of adjustments to the President's Budget (PB), receipt and distribution of program authority and budget authorizations in accordance with established business rules. Budget Execution provides analysis tools and execution data to budget offices at all levels. It includes analysis tools for monitoring budget execution information, determining unfunded requirements, and fiscal year-end processing. Cost Modeling provides interactive cost modeling capability for manpower, flying hours, civilian pay, and other similar model driven costs based on resource information. In accordance with the Operational Requirements Document (ORD), FIRST will continue to incorporate legacy systems (e.g., Automated Business Services System (ABSS) and Obligation Adjustment Reporting System (OARS)) functionality. DEAMS will support and incorporate capabilities that were planned for future increments in FIRST. DEAMS will support elimination of duplicative and unneccessary systems. DEAMS provides the capability to be utilized by other services within the DoD.

This program is in Budget Activity 7, Operational System Development, because the program modernizes Automated Information Systems (AIS).

(U) B. Accomplishments/Planned Program ($ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
(U) Accomplishments/Planned Program				
(U) Application Development, Test, and Support for Enterprise Data View capability - Complete	0.393	0.000	0.000	0.000

Exhibit R-2a, RDT&E Project Justification

DATE **February 2005**

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE
07 Operational System Development	**0901538F FIRST**	**5036 Financial Information Resource System (FIRST)**

(U)	Application Development & Test for Budget Formulation capability	7.787	8.705	7.214	0.800
(U)	Application Development & Test for Funds Management/Budget Execution capability	0.000	0.283	0.300	8.425
(U)	Development of legacy system functionality into FIRST (e.g., ABSS, CMS, OARS)	3.013	5.105	3.555	2.389
(U)	Application Development & Test for Cost Modeling capability	0.000	0.000	0.000	3.111
(U)	GCSS-AF Test & Integration	1.377	1.322	1.362	1.403
(U)	Government Independent Test and Assessment	0.050	0.179	0.100	0.100
(U)	Total Cost	12.620	15.594	12.531	16.228

(U) C. Other Program Funding Summary ($ in Millions)

		FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
(U)	Other Procurement, AF (PE 0901538F)	1.225	0.722	0.749	0.786	0.804	0.824	0.845	0.860	Continuing	TBD
(U)	O&M, AF (PE 0308610F)	4.486	3.664	3.809	3.819	2.842	2.919	2.919	2.919	Continuing	TBD

(U) D. Acquisition Strategy

All major contracts awarded after full and open competition.

Exhibit R-3, RDT&E Project Cost Analysis

DATE
February 2005

BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0901538F FIRST

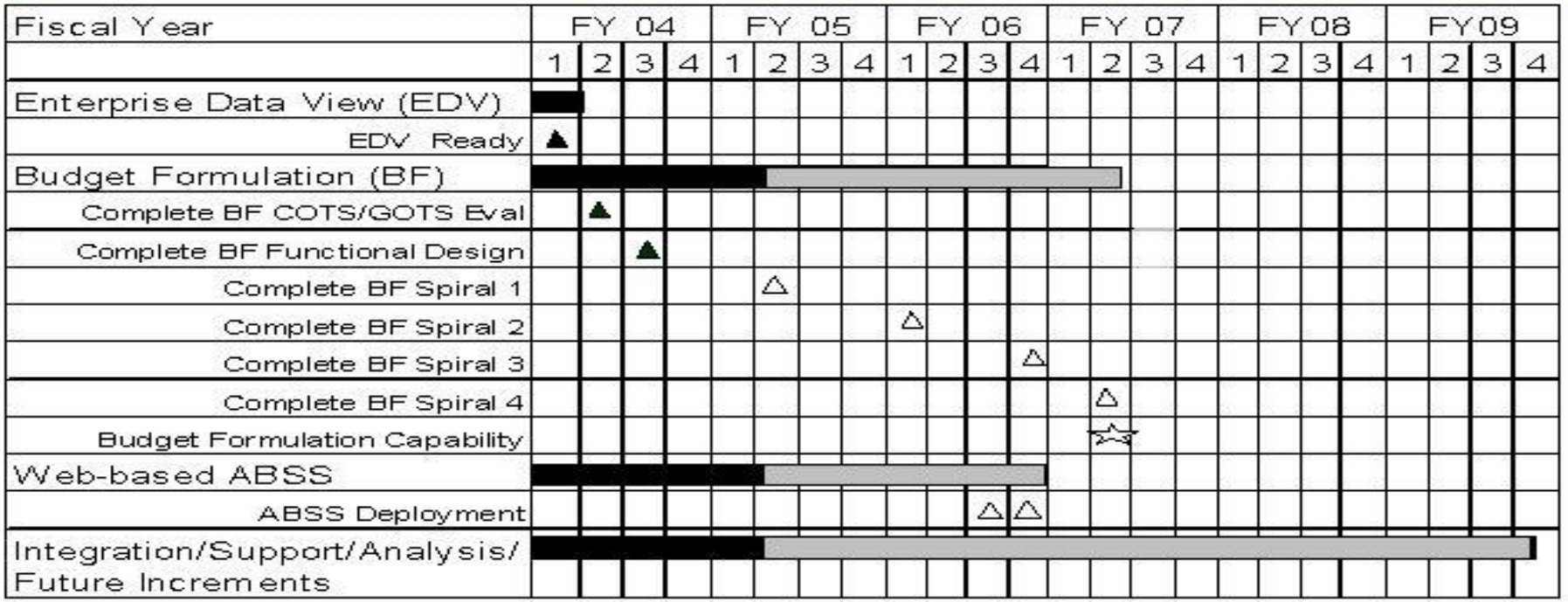
PROJECT NUMBER AND TITLE
5036 Financial Information Resource System (FIRST)

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development														
Application Development	C/CPAF	Accenture, Fairborn, Ohio	13.661	11.193	Apr-04	14.093	Apr-05	11.069	Apr-06	14.725	Apr-07	Continuing	TBD	68.475
GCSS-AF Integration	C/CPAF	LM, Fairborn, Ohio	0.867	1.377	Dec-03	1.322	Dec-04	1.362	Dec-05	1.403	Dec-06	Continuing	TBD	TBD
Subtotal Product Development			14.528	12.570		15.415		12.431		16.128		Continuing	TBD	TBD
Remarks:														
(U) Test & Evaluation														
Joint Interoperability Test Center (JITC)	MIPR	JITC, Fort Huachuca, Arizona	0.023	0.050	Oct-03	0.179	Oct-04	0.100	Oct-05	0.100	Oct-06	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.023	0.050		0.179		0.100		0.100		Continuing	TBD	TBD
Remarks:														
(U) Total Cost			14.551	12.620		15.594		12.531		16.228		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile		DATE February 2005
BUDGET ACTIVITY **07 Operational System Development**	PE NUMBER AND TITLE **0901538F FIRST**	PROJECT NUMBER AND TITLE **5036 Financial Information Resource System (FIRST)**

U.S. AIR FORCE

FIRST SCHEDULE



☆ *Major Event or Milestone*
Planned Ongoing Activity
Ongoing Activity that is Complete
▲ *Completed Event*
△ *Planned Task(s)*

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Exhibit R-4a, RDT&E Schedule Detail

DATE
February 2005

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE
07 Operational System Development	**0901538F FIRST**	**5036 Financial Information Resource System (FIRST)**

(U) Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007
(U) EDV Ready	1Q			
(U) Complete BF COTS/GOTS Evaluation	2Q			
(U) Complete BF Functional Design	3Q			
(U) Complete BF Spiral 1		2Q		
(U) Complete BF Spiral 2			1Q	
(U) Complete BF Spiral 3			4Q	
(U) Complete BF Spiral 4				2Q
(U) Web-based ABSS			4Q	
(U) Integration/Support/Analysis/Future Increments	1-4Q	1-4Q	1-4Q	1-4Q

Exhibit R-2a, RDT&E Project Justification

DATE **February 2005**

BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0901538F FIRST

PROJECT NUMBER AND TITLE
5179 Defense Enterprise Accounting Management System - AF (DEAMS)

	Cost ($ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5179	Defense Enterprise Accounting Management System - AF (DEAMS)	0.000	0.000	5.000	11.300	0.000	0.000	0.000	0.000	0.000	0.000
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Defense Enterprise Accounting Management (DEAMS) is a COTS-based software configuration effort to provide a modern accounting and finance system. The system will replace existing legacy systems to provide core management functions consistent with financial management laws, regulations and policy, general ledger, funds management, payments, receivables, cost and revenues, and fiduciary reporting. The AF increment will build on a USTRANSCOM pilot and enhance that pilot to include AF investment funding and AFWCF. DEAMS will be compliant with the Clinger-Cohen Act, Business Management Modernization Program (BMMP), Global Combat Support System-Air Force (GCSS-AF). The COTS product will be Joint Federal Management Improvement Program (JFMIP) compliant. DEAMS will support the elimination and duplication of unneccessary systems. DEAMS will provide capability that was scheduled for future increments of FIRST. DEAMS will also provide the capacity to expand to other services within the DoD.

This program is in Budget Activity 7, Operational System Development, because the program modernizes Automated Information Systems (AIS).

	B. Accomplishments/Planned Program ($ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
(U)	DEAMS Blueprinting of AF requirements	0.000	0.000	5.000	11.300
(U)					
(U)					
(U)	Total Cost	0.000	0.000	5.000	11.300

(U) C. Other Program Funding Summary ($ in Millions)

		FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
(U)	Transportation Working Capital Fund (TWCF)	46.500	19.200	13.900	9.900	6.200	6.200	6.200	6.200	Continuing	TBD
(U)	3400 (PE 91212F)	25.200	25.200	14.200	20.100	25.600	25.600	25.600	25.600	Continuing	TBD

(U) D. Acquisition Strategy

All major contracts awarded utilizing the DOD Enterprise System Integrator Blanket Purchase Agreement under the Enterprise Software Initiative (ESI).

Exhibit R-3, RDT&E Project Cost Analysis

DATE
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BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0901538F FIRST

PROJECT NUMBER AND TITLE
5179 Defense Enterprise Accounting Management System - AF (DEAMS)

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development														
Deams Blueprinting of AF Requirements	TBD	TBD	0.000	0.000		0.000		5.000	May-06	11.300	Oct-06	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		0.000		5.000		11.300		Continuing	TBD	TBD
Remarks:														
(U) Total Cost			0.000	0.000		0.000		5.000		11.300		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile		DATE February 2005
BUDGET ACTIVITY **07 Operational System Development**	PE NUMBER AND TITLE **0901538F FIRST**	PROJECT NUMBER AND TITLE **5179 Defense Enterprise Accounting Management System - AF (DEAMS)**

U.S. AIR FORCE

DEAMS SCHEDULE

Fiscal Year	FY 04				FY 05				FY 06				FY 07				FY08				FY09			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Blueprint AF Increment																								

☆ *Major Event or Milestone*
Planned Ongoing Activity
Ongoing Activity that is Complete
▲ *Completed Event*
△ *Planned Task(s)*

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Exhibit R-4a, RDT&E Schedule Detail

DATE
February 2005

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE
07 Operational System Development	**0901538F FIRST**	**5179 Defense Enterprise Accounting Management System - AF (DEAMS)**

(U) Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007
(U) Blueprint Air Force Increment			4Q	1-4Q

FY 2006 President's Budget Submittal

BASE	FY	Project #	Title	PE	($000)	Remarks
Eglin	04	FTFA021197	Install Guardrails Bldg 999	6.59.76F	40	New FY04 Project
Eglin	04	FTFA011145	Install Fence Climatic Lab Storage Area	6.59.76F	22	New FY04 Project
Eglin	04	FTFA041169	Construct Mechanical Room Addition, GWEF	6.59.76F	72	New FY04 Project
Eglin	04	FTFA031313	Const Weather Cover Fabrication Facility	6.59.76F	465.5	New FY04 Project
Edwards	04	FSPM012544	MC CNST LOX CART MAINTENANCE FACI	6.59.76F	450	New FY04 Project
Hanscom	04	MXRD040028	Construct Computer Room Bldg 1607, Room	6.38.58F	22.5	New FY04 Project
Wright-Pat	04	ZHTV041990	Provide A/C 2nd and 3rd Floor AFRL	6.22.01F	69.9	New FY04 Project
Wright-Pat	04	ZHTV042053	INSTL HUMIDIFICATION CONTROL	6.22.03F	275	New FY04 Project
Wright-Patt	04	ZHTV030042	PRVD POWER SUPPLY FOR CARL	6.22.03F	450	New FY04 Project
Wright-Patt	04	ZHTV030016B	CNST MECHANICAL ROOM	6.22.03F	592	New FY04 Project
Eglin	05	FTFA011226	CONSTRUCT IGLOO AND IGLOO WALL M	6.59.76F	309	New FY05 Project
Eglin	05	FTFA011101	Add to Parking Area Building 432	6.26.02F	26	Moved from FY04
Eglin	05	FTFA031269	Construct LDERF Office and Machine Shop	6.26.02F	582	New FY05 Project
Eglin	05	FTFA031026A1	LDERF LABORATORY	6.26.02F	530	New FY05 Project
Eglin	05	FTFA971041	CONSTRUCT MUNITIONS TEST FAC	6.58.07F	420	New FY05 Project
Edwards	05	FSPM032510	MC CBR SITE PREP RVITS	6.59.76F	25	New FY05 Project
Edwards	05	FSPM022526	MC CNST OFFICE SPACE AFRL B8595	6.59.76F	25	New FY05 Project
Wright-Pat	05	ZHTV032047A	Construct Canopy/Install Windows	6.22.01F	111.3	New FY05 Project
Wright-Pat	05	ZHTV032808	Construct Fuels Storage Pad	6.22.03F	300	Moved from FY04
Wright-Pat	05	ZHTV030043	Construct Support Facility for GEOLAB	6.22.04F	70	Moved from FY04
Kirtland	07	MHMV011664	CONSTRUCT LAB SUPPORT SPACE	6.22.02F	460	New FY07 Project

1. COMPONENT AIR FORCE	FY 2004 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	INSTALL GUARD RAILS BLDG 999

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
65976	315-237	FTFA021197	EEIC 529 12

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				12.0
INSTALL GUARD RAILS BUILDING 999	LS			(12.0)
SUBTOTAL				12.0
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				12.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				12.0

10. Description of Proposed Work: The work will consist of installing 8" diameter steel pipe bollards filled with concrete at 20 locations on 5'-0" intervals. Bollards to be 48" in height from base plate to top of bollard. Base plate to be 15" square - 3/4" thick with (4) 3/4" diameter, 10" expansion bolts.

11. Requirement: As Required.

PROJECT: Install bollards on the east side of Bldg 999. (Minor Construction using FY04 RDT&E funds)

REQUIREMENT: Work is necessary to prevent mobile equipment from falling over the edge of the loading ramp.

CURRENT SITUATION: Existing guardrail is sufficient for pedestrians but will not prevent forklifts, bobtails, and munitions trailers from falling over the edge.

IMPACT IF NOT PROVIDED: Equipment will continue to be at risk of crashing through the existing guard rail protection and being damaged by the fall from the ramp.

1. COMPONENT AIR FORCE	FY 2004 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	INSTALL FENCE CLIMATIC LAB STORAGE AREA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
65976	310-926	FTFA011145	EEIC 529 22

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				22.0
INSTALL FENCE CLIMATIC LAB STORAGE AREA	LS			(22.0)
SUBTOTAL				22.0
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				22.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				22.0

10. Description of Proposed Work: Install chain link fencing with 3 strands of barbed wire and gate around the Climatic Lab Storage Area. Erect 800 LF of 7' FE6 chain link fence and two 84 SF FE6 swing gates for a 24' opening.

11. Requirement: As Required.

PROJECT: Install Fence Climatic Lab Storage Area. (Minor Construction using FY04 RDT&E funds)

REQUIREMENT: Fence is necessary to provide security for stored items.

CURRENT SITUATION: The Climatic Lab Storage Area has approximately $2 million worth of material (equipment, fuels, and chemicals) that need protection from possible theft and vandalism.

IMPACT IF NOT PROVIDED: If not provided, $2 million worth of material (equipment, fuels, and chemicals) will continue to be unprotected from possible theft and vandalism.

1. COMPONENT AIR FORCE	FY 2004 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	CONST MECHANICAL RM ADDITION GWEF (BLDG 374)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000) EEIC 529
65976	315-236	FTFA041169	72

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				72.0
CONSTRUCT MECHANCIAL ROOM ADDITION, GWEF	LS			(72.0)
SUBTOTAL				72.0
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				72.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				72.0

10. Description of Proposed Work: Construct mechanical room addition (approx 30' x 30' x 15' high) to match existing. Exterior walls to be CMU with stucco finish. Built-up roofing with roof drains. Install two roll-up doors. Install personnel doors. Extend exisiting wet pipe sprinkler system into addition.

11. Requirement: As Required.

PROJECT: Provides for constructing a mechanical room addition at Bldg 374, GWEF. (Minor Construction using FY04 RDT&E funds).

REQUIREMENT: Work is necessary to provide adequate space for two new replacement boilers. A new mechanical room is needed to house these new boilers. Having 2 boilers will allow our HVAC shop to perform the required boiler maintenance without the facility ever losing hot water capability and jeopardizing mission testing.

CURRENT SITUATION: Existing (and only) boiler at Bldg 374 is beyond economical repair and has been shut down. Two (2) new boilders have been ordered but are too large to fit into the existing mechanical room.

IMPACT IF NOT PROVIDED: If not provided, the testing mission at the GWEFwill be jeopardized since the facility will lose hot water capability during boiler maintenance.

1. COMPONENT	FY 2004 PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	CONST WEATHER COVER FABRICATION FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000) EEIC 529
65976	319-995	FTFA031313	465.5

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				465.5
CONSTRUCT WEATHER COVER FABRICATION FACILITY	LS			(465.5)
SUBTOTAL				465.5
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				465.5
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				465.5

10. Description of Proposed Work: Construct Weather Cover Fabrication Facility.

11. Requirement: As Required.

PROJECT: Project provides for constructing a facility in Area A-19 on Eglin's Main Base to house the 46th Test Wing's Weather Cover Fabrication Facility. (Minor Construction using FY04 RDT&E funds).

REQUIREMENT: Work is ncecessary to provide a replacment faiclity for Bldg 604 which is to be demolished. Construct a 50' x 120' x 16 (high) pre-engineered, clear span metal building with reinforced concrete slab, heavy gauge standing seam roof with ridge vent and closed gable ends. Install insulation. Install perforated metal from floor up to four feet around walls of building (metal will be installed over insulation). Install two 3'x7' insulated exterior exit metal doors and frames with hinges, entrance locksets, closers door bumpers, panic hardware and vision panel. Install aluminum gutter and downspouts. Install underground primary power line and transformer. Painting. Install new concrete 6" thick in gravelled areas. Install pendent mounted, 250W explosion proof mercury lights. Install outlets along the walls. Install new panel for lights and receptacles. Install grounding points, lighting protection system and surge protector. Install HVAC system. Construct mechanical room, comm/electrical room, restroom, shop/storage area and office space complete with all finishes.

CURRENT SITUATION: The 46th Test Wing has an in-house capability for manufacturing weather covers for use on test range assets. These covers protect the valuable one-of-a-kind assets from the environment and also allow the operations and maintenance personnel to work on the assets in inclement weather.

IMPACT IF NOT PROVIDED: If not provided, production of weather covers to protect valuable assets will be significantly hampered.

1. COMPONENT AIR FORCE	FY 2004 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	MC CNST LOX CART MAINTENANCE FACILITY B1717

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
65976	442-258	FSPM012544	EEIC 529 477.8

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				260.4
CONSTRUCT LOX CART MAINTENANCE FACILITY	SM	186	1,400	(260.4)
SUPPORTING FACILITIES				217.4
CONCRETE STORAGE AREA	SM	50	592	(29.6)
SITE PREP	LS			(25.0)
UTILITIES	LS			(100.0)
RELOCATE CLEAN ROOM	LS			(40.0)
PARKING	SM	670	34	(22.8)
SUBTOTAL				477.8
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				477.8
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				477.8

10. Description of Proposed Work: Relocate the LOX cart maintence function from building 1931, by constructing a new facility on pad 15, and relocating the existing clean room. The new facility will be the same size as the existing facility. Paint hold short lines on pad 15 to prevent aircraft traffic in the area.

11. Requirement: As Required.

PROJECT: Construct LOX Cart Maintenance Facility. (Minor Construction using FY04 RDT&E funds)

REQUIREMENT: The LOX cart maintenance function with a clean room is required to be located outside the fragmentation zone around the old X-15 test stand to allow simultaneous use of both facilities.

CURRENT SITUATION: The existing LOX cart maintenance facility is currently located within the fragmentation zone around the old X-15 test stand. The facility must be vacated during any test stand activities. Additionally, the facility itself would be at risk of serious damage if an accident occurred during testing.

IMPACT IF NOT PROVIDED: The LOX cart maintenance facility will remain within the test stand fragmentation zone and will have to be vacated during test stand activities. An accident at the test stand will pose an unacceptable risk to the LOX cart maintenance operations.

1. COMPONENT AIR FORCE	FY 2004 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HANSCOM AIR FORCE BASE, MASSACHUSETTS	CONSTRUCT COMPUTER ROOM BLDG 1607 RM 170

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
63858	317-311	MXRD040028	EEIC 529 23

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				23.0
CONSTRUCT COMPUTER ROOM BLDG 1607 ROOM 170	LS			(23.0)
SUBTOTAL				23.0
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				23.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				23.0

10. Description of Proposed Work: This project will construct a computer room in an existing SCIF in the facility. This will include the addition of walls, lighting, an update to the sprinkler system, new doors and locks and the installation of an air conditioning system.
Air Conditioning: 2 Tons

11. Requirement: As Required.

PROJECT: Construct a computer room in building 1607, Room 170. (Minor Construction using FY04 RDT&E funds)

REQUIREMENT: A secure computer room within the existing SCIF is required to support the relocation of an existing RDT&E mission to this facility. This RDT&E mission requires adequate space to house sensitive computer equipment isolated from other existing computer systems with a dedicated backup generator circuit.

CURRENT SITUATION: Room 170 was originally constructed as a SCIF. The existing space was not designed to support sensitive computer equipment. Computer support for the relocated RDT&E function is currently collocated within another group's area compromising security and creating scheduling conflicts.

IMPACT IF NOT PROVIDED: The user's mission will be impacted by being forced to share time and resources with another group.

1. COMPONENT AIR FORCE	FY 2004 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WRIGHT PATTERSON AIR FORCE BASE, OHIO	PRVD A/C 2ND & 3RD FLOOR AFRL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62201	311-171	ZHTV041990	EEIC 529 69.9

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				55.9
INSTALL AIR CONDITIONING	LS			(55.9)
SUBTOTAL				55.9
PROFIT AND OVERHEAD (25 %)				14.0
TOTAL FUNDED COST				69.9
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				69.9

10. Description of Proposed Work: Install air handler, controls, chiller and associated ductwork to deliver air-conditioned air to the second and third floors of the building.

11. Requirement: As Required.

PROJECT: Provide Air Conditioning 2nd and 3rd Floor 20065. (Minor Construction using FY04 RDT&E funds)

REQUIREMENT: A climate-controlled environment is required to support sensitive equipment, equipment operators and other workers in support of weapons systems research and development.

CURRENT SITUATION: The second and third floors do not have complete climate control. On the second floor, a new instrumentation, data acquisition, and controls systems laboratory has been established. The lab supports in-house activities resulting in new methodologies to accomplish the Air Vehicles Directorate's experimental requirements. In addition, a new capacitive structures laboratory is being established. The capacitive structures lab will include a faraday cage with high voltage power systems which may exceed 500,000 volts. This new technology has the potential to contribute significantly to directed energy programs the Air Force is currently pursuing. Both these labs were located on the 2nd floor to facilitate personnel safety in conjunction with the fact that the required infrastructures resources are available at this location. The 3rd floor has been designated as a bench level work area for technician personnel to perform electronics repair, instrument test articles, and perform test hardware assembly and checkout. The work performed in these laboratories is tedious and is very sensitive to a high heat and humidity environment. The second and third floors often experience temperatures exceeding 90 degrees Fahrenheit and 90% humidity.

IMPACT IF NOT PROVIDED: The extremes of temperature and humidity will adversely affect experiment and test apparatus, distorting and rendering research data invalid. Failure to provide a climate-controlled environment at these locations would increase the cost, and technical risk for the experimental validation activities being pursued by the Air Vehicles Directorate. Progress in direct energy research will be delayed, adversely impacting the Air Force's lead in developing, testing, and deploying technologically advanced weapons systems.

1. COMPONENT AIR FORCE	FY 2004 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WRIGHT PATTERSON AIR FORCE BASE, OHIO	INSTL HUMIDIFICATION CONTROL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62203	310-921	ZHTV042053	EEIC 529 275

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				220.0
SC LAB MED	LS			(220.0)
SUBTOTAL				220.0
PROFIT AND OVERHEAD (25 %)				55.0
TOTAL FUNDED COST				275.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				275.0

10. Description of Proposed Work: Install air handler, including related controls, piping, and power, and HVAC distribtion system. Tie system into the existing 10838 HVAC system.

11. Requirement: As Required.

PROJECT: Install Humidification Control

REQUIREMENT: Provide controlled environment for toxicology research on animal subjects.

CURRENT SITUATION: The vivarium annex to 10838 does not have proper humidity control and ventilation, leading to disease in laboratory animals used as experimental subjects. Lack of proper climate control and the resultant diseases invalidates the experiment results derived from the animal subjects. A disease called ring tail has been found on the animal subjects in the vivarium.

IMPACT IF NOT PROVIDED: Failure to provide proper climate control will conitnue to lead to animal diseases and iinvalid test results, and will result in the toxicology laboratory losing certification, rendering future scientific studies iin the toxicology laboratory invalid and jeopordizing future research grants.

1. COMPONENT	FY 2004 PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WRIGHT PATTERSON AIR FORCE BASE, OHIO	PRVD POWER SUPPLY FOR CARL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62203	812-226	ZHTV030042	EEIC 529 450

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				360.0
POWER SUPPLY TO THE CARL FACILITY	LS			(360.0)
SUBTOTAL				360.0
PROFIT AND OVERHEAD (25 %)				90.0
TOTAL FUNDED COST				450.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				450.0

10. Description of Proposed Work: Excavate, construct concrete duct bank, access manholes, high voltage cables and terminations, and motor control center feeder. Relocate conflicting utilities as required. Backfill and restore surface to pavement or grass.

11. Requirement: As Required.

PROJECT: Provide power supply to the Compressor Aero Research Laboratory (CARL) facility. (Minor Construction using FY04 RDT&E funds)

REQUIREMENT: An electrical supply is needed to support a relocated test rig used for research on turbine and compressor technology to be incorporated in new and improved aircraft propulsion systems.

CURRENT SITUATION: The CARL facility is a research apparatus consisting of fan rigs and high load compressors, and is used to conduct research on the physics of compressor technology and turbine fan design, as well as development of the same. The present location of the CARL apparatus is in an antiquated, soon-to-be demolished facility 1.7 miles distant from the Propulsion Directorate complex, resulting in difficulties in communications and collaborative research and development between CARL and the remainder of the Propulsion Directorate research laboratories. In order to facilitate collaborative research and improve communications, CARL will be relocated to an underutilized test cell in the Propulsion Laboratory complex. As part of the relocation effort electric power must be provided to the test apparatus, requiring the construction of an underground duct bank and high voltage cable to connect to a nearby power substation.

IMPACT IF NOT PROVIDED: The apparatus is used three times a week on average to conduct research and experiments in turbine and compressor technology. Failure to provide the electrical connection will render the CARL facility unusable, causing experimentation to cease and disrupting research and development of turbines and compressors.

1. COMPONENT AIR FORCE	FY 2004 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WRIGHT PATTERSON AIR FORCE BASE, OHIO	CNST MECHANICAL ROOM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62203	318-612	ZHTV030016B	EEIC 529 592

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				473.6
ADD TO MECHANICAL ROOM	SM	185	2,560	(473.6)
SUBTOTAL				473.6
PROFIT AND OVERHEAD (25 %)				118.4
TOTAL FUNDED COST				592.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				592.0

10. Description of Proposed Work: Excavate, provide foundations and slab, exterior skin, and interior utilities and finishes. All labor and materials needed to construct a mechanical room addition to 20018H.

11. Requirement: As Required.

PROJECT: Add to Mechanical Room building 20018H. (Minor Construction using FY04 RDT&E funds)

REQUIREMENT: Expansion of the existing mechanical room is required to support the consolidation and replacement of laboratory chillers that provide climate control necessary to maintain controlled environments used to conduct valid and accurate research on propulsion systems, turbines, aircraft power devices and systems, and fuels and lubricants.

CURRENT SITUATION: The propulsion laboratory complex, containing 23 separate laboratories, test cells, and research/testing apparatus in seven facilities, require reliable climate control for propulsion, fuels, and lubricants research. Climate control is provided in part by three chillers. These chillers are over 20 years old and have reached the end of their service life, as indicated by increasing frequency of breakdowns and service calls. The chillers will be replaced by three new chillers, configured as a central chiller plant with a supporting mechanical room to house ancillary mechanical and electrical equipment such as pumps and controls.

IMPACT IF NOT PROVIDED: Failure to provide a chilled water supply will adversely impact the ability of AFRL to conduct propulsion research. Research associated with the development of propulsion and related technologies (such as turbine engines, advanced propulsion systems, fuels, and lubricants, and aircraft power devices and systems) will be disrupted.

ADDITIONAL: This project is a companion project to a repair project ZHTV030016A, Replace Chillers.

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

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	CONSTRUCT IGLOO AND IGLOO WALL MOCKUP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
65976	422-264	FTFA011226	EEIC 529 308.6

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
CONSTRUCT IGLOO & IGLOO WALL MOCKUP				263.6
IGLOO WALL MOCK-UP	EA	2	55,000	(110.0)
IGLOO	SM	84	1,829	(153.6)
SUPPORTING FACILITIES				45.0
SITE IMPROVEMENTS	LS			(25.0)
DEMO IGLOO AND WALL MOCKUPS	LS			(20.0)
SUBTOTAL				308.6
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				308.6
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				308.6

10. Description of Proposed Work: Construct a 900 SF reinforced concrete earth covered igloo and 2 adjacent reinforced concrete igloo wall mock-ups.

11. Requirement: 84 SM Adequate: 0 SM Substandard: 84 SM

PROJECT: Construct a earth covered igloo and adjacent igloo wall mock-ups. (Minor construction using FY05 RDT&E funds)

REQUIREMENT: This project was validated at a special meeting of the Installation Security Council held in January 2002. Requirements are in concurrance with AFI-31-101 and the most recent VAT and JSIVA for Eglin AFB. ESC/FD is tasked with the responsibility of procuring Force Protection Systems for various DoD assets. An igloo and adjacent igloo walls are required to support testing interior sensor systems for the Force Protection Systems Program Office (SPO) through Force on Force exercises prior to procurement and deployment.

CURRENT SITUATION: ESC/FD, the Force Protection SPO utilizes test area C-3 on Eglin AFB, FL. The existing site does not possess the necessary facilities to adequately test the new generation of Research and Development Force Protection Systems.

IMPACT IF NOT PROVIDED: Without this project, DoD Force Protection capabilities will be compromised due to inadequate testing of prototype force protection facilities.

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

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	ADD TO PARKING AREA, BUILDING 432

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62602	315-237	FTFA011101	EEIC 529 26

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				26.0
ADD TO PARKING AREA, BLDG 432	LS			(26.0)
SUBTOTAL				26.0
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				26.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				26.0

10. Description of Proposed Work: Asphalt parking lot for 15 POV parking spots adjacent to building 432.

11. Requirement: As Required.

PROJECT: Constructs POV parking adjacent to building 432. (Minor Construction using FY05 RDT&E funds).

REQUIREMENT: Work is required to provide adequate parking at the required distance from the facility. Building 432 serves as the fuze testing and research facility, which drives the need for a safe set-back distance.

CURRENT SITUATION: Half of building 432 is set up for explosive operations for fuze research. Personnel working in this building currently park right next to two sides of the building. Recent attention from safety personnel determined this parking arrangement violates AF manual 91-201 which governs explosive safety standards. AFM 91-201, paragraph 3.17.2, specifies a 100 foot minimum distance between privately owned vehicles parking and a potential explosion site (Bldg 432). Base regulations don't allow parking on the grass outside of the facility, and erosion has become a problem at one end of the existing pavement.

IMPACT IF NOT PROVIDED: Personnel will have to park in an overcrowded parking lot used by other personnel at a different building which is located about 1/2 mile away.

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

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	CONSTRUCT LDERF OFFICE AND MACHINE SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62602	317-311	FTFA031269	EEIC 529 581.6

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				501.6
LDERF OFFICE AND MACHINE SHOP	SM	418	1,200	(501.6)
SUPPORTING FACILITIES				80.0
PAVING	LS			(30.0)
UTILITIES	LS			(40.0)
SITE WORK	LS			(10.0)
SUBTOTAL				581.6
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				581.6
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				581.6

10. Description of Proposed Work: Single story metal building with sloped metal roof to house offices, administrative space, and a machine shop, electronics shop and a plating room. Facility will have mechanical room space for full HVAC including shops areas, and building will have bathrooms and functionally unique space with a high bay roll-up door to allow access to interior. Paving and utility connections are included.

11. Requirement: 418 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct LDERF Office and Machine Shop. (Minor Construction using FY05 RDT&E funds).

REQUIREMENT: Permanent office space is required to support research and development integration activities at the newly designated test site, C-86 on the Eglin range. This new facility will house between 10-15 scientists, engineers and technicians, providing all offices, conference rooms, machine shops, haz-mat storage and general purpose storage areas as the Laser Detection and Ranging (LADAR) Development and Evaluation Research Facility (LDERF) for AFRL/MNGS.

CURRENT SITUATION: The current facility at range site C-3 was built as a temporary office location as a tenant on the Base Installation Security Services (BISS) group range. The BISS pre-planned expansion and current construction efforts are interfering with LDERF operations and will force a termination of all outdoor range activities in early FY04. The current work space is insufficient for the number of in-house projects under investigation, there is inadequate storage for the amount of research equipment that is required, and there is insufficient office space to house the dozen or more research scientists, engineers and technicians. A new range is being developed in FY03 at C-86, and that will be supplemented by the construction of this new facility with enhanced capabilities.

IMPACT IF NOT PROVIDED: All of the USAF electro-optics research for air delivered munitions guidance is conducted at this facility. The future of all advanced munitions research is, therefore, in jeopardy with the termination of operations. Many joint DoD, DoE and Defense Advanced Research Projects Agency (DARPA) LADAR development programs, several of which are managed from this site, and ongoing support to national

intelligence agencies will also be disrupted. The overall impact of deferral of this program will be the inability to construct a permanent research facility that would otherwise enable continued operations and expanded facilities matching the growth of AFRL investment in this technology.

ADDITIONAL: This facility serves as a follow-on enhancement to a newly created range. Range C-86 is being constructed in two phases to provide a complete and useable facility. This project for the admin and shop space enhances that range, also as a complete and useable facility.

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

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	LDERF LABORATORY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62602	317-311	FTFA031026A1	EEIC 529 529.8

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				449.8
ELECT RSCH LAB	SM	418	1,076	(449.8)
SUPPORTING FACILITIES				80.0
SEPTIC TANK	LS			(20.0)
WATER WELL	LS			(60.0)
SUBTOTAL				529.8
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				529.8
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				529.8

10. Description of Proposed Work: Construct a 418 SM pre-engineered metal building with sloped metal roof and high bay doors to contain laser laboratories and an indoor lasing range. Facility will also have mechanical room space for HVAC, bathrooms and functionally unique space for lab equipment, plus required storage for research and development supplies and equipment.

11. Requirement: As Required.

PROJECT: Provides a laboratory for indoor lasing. Includes special purpose space and work benches for testing detection systems, developing lasers and testing optics.

REQUIREMENT: The Laser Detection and Ranging component of the LDERF requires an indoor range for certain tests on lasing equipment. Indoor laboratories area also required to allow on-site modifications to equipment and efficient data collection and analysis of test results.

CURRENT SITUATION: The Base Intrusion Security System (BISS) function of the 46th Test Wing shares a range with the Laser Detection and Ranging (LADAR) element of the LADAR Development and Evaluation Research (LDERF), a component of AFRL. Since the 9-11 attack, the BISS ops tempo has increased dramatically to the point that it affects the mission of the LDERF with frequent work-arounds (mission planning and shut-downs) required due to conflicting uses of the range. LDERF will be moved across the road and a dedicated range will be developed in phase one of this effort under the approval authority of the Laboratory Revitalization Demonstration Program (LRDP). BISS will close the range at C-3 to LDERF in late FY03.

IMPACT IF NOT PROVIDED: The LDERF will continue to work around the scheduling of the increased ops tempo of the BISS operation, until FY03, which is when BISS will close the range to LDERF due to the conflicting missions. A new range is being developed under phase I of this project, but to add the laboratory space in this phase with the indoor range will expand the R&D capabilities for more intensive testing.

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

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE, FLORIDA	CONSTRUCT MUNITIONS TEST FAC

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
65807	315-237	FTFA971041	EEIC 529 420

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				420.0
CONSTRUCT MUNITIONS TEST FACILITY	LS			(420.0)
SUBTOTAL				420.0
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				420.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				420.0

10. Description of Proposed Work: Construct a new munitions test facility to replace the existing temporary trailors

11. Requirement: As Required.

PROJECT: Construct Munitions Test Facility. (Minor Construction using FY05 RDT&E funds).

REQUIREMENT: A new facility is required to house the non-hands on munitions personnel associated with the munitions test program.

CURRENT SITUATION: Personnel have been displaced from Bldg 999 because of explosive safety considerations (live munitions operations are performed in the facility). Personnel are currently being housed in three double-wide trailers.

IMPACT IF NOT PROVIDED: Personnel will continued to operate out of temporary facilities causing mission delays.

1. COMPONENT AIR FORCE	FY 2008 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	MC CBR SITE PREP RVITS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
65976	319-441	FSPM032510	EEIC 529 25

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				25.0
EQUIP RSCH LAB	LS			(25.0)
SUBTOTAL				25.0
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				25.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				25.0

10. Description of Proposed Work: Construct a small facility with concrete pad and small sump to support testing of small rocket engines at the south test stand near B1926.

11. Requirement: As Required.

PROJECT: Construct a small facility with concrete pad and small sump to support testing of small rocket engines at the south test stand near B1926.

REQUIREMENT: Construct a small facility with concrete pad and small sump to support testing of small rocket engines at the south test stand near B1926.

IMPACT IF NOT PROVIDED: This work is required to support testing in support of the X-43 program.

1. COMPONENT AIR FORCE	FY 2008 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EDWARDS AIR FORCE BASE, CALIFORNIA	MC CNST OFFICE SPACE AFRL B8595

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
65976	312-477	FSPM022526	EEIC 529 25

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				25.0
MSL/SPACE RSH TST	LS			(25.0)
SUBTOTAL				25.0
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				25.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				25.0

10. Description of Proposed Work: Install 20' x 20' two story office space inside high bay area of building 8595.

11. Requirement: As Required.

PROJECT: Install 20' x 20' two story office space inside high bay area of building 8595.

REQUIREMENT: Install 20' x 20' two story office space inside high bay area of building 8595.

IMPACT IF NOT PROVIDED: The new office space is required to support increase in research and development activity.

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

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WRIGHT PATTERSON AIR FORCE BASE, OHIO	CNSTR CANOPY/INSTL WINDOWS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62201	311-114	ZHTV032047A	EEIC 529 111.3

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				89.0
CONSTRUCT FRONT ENTRANCE	LS			(89.0)
SUBTOTAL				89.0
PROFIT AND OVERHEAD (25 %)				22.3
TOTAL FUNDED COST				111.3
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				111.3

10. Description of Proposed Work: Excavate, provide foundations, superstructure, windows, doors, interior finishes and utilities for an entry vestibule at 20045.

11. Requirement: As Required.

PROJECT: Construct Canpoy/Install Windows 20045. (Minor Construction using FY05 RDT&E funds)

REQUIREMENT: Reconfiguration of the entrance via interior remodeling of the lobby and provision of an entrance vestibule is required to improve force protection and security for classified research activities, provide a secure single point of entry and reception area for visitors and create a focal point within the facility to assist in way finding.

CURRENT SITUATION: 20045 is a central automatic data processing (ADP) and administrative support facility for the Air Force Research Laboratories Air Vehicles Directorate (AFRL/VA). ADP support is provided to facilities in the adjacent AFLR/VA complex and to other VA research laboratories and shops throughout Area B of Wright-Patterson AFB. Office space is also provided to scientists, technicians, and engineers engaged in testing and experimentation in the VA research laboratories and shops. While actual experimentation occurs at the labs, desktop analyses and development occurs in the 20045 administrative center. A study has been conducted that recommends a comprehensive interior renovation to more efficiently support the scientific research mission of AFRL/VA, with recommendations to reconfigure an antiquated and confusing office arrangement and circulation system and construct a new entrance and vestibule.

IMPACT IF NOT PROVIDED: 20045 will not have an optimal spatial arrangement to support scientists, engineers, and technicians engaged in research, testing, and development in aeronautical sciences, fixed wing aerospace structures, and flight controls and simulations due to a confused interior spatial arrangement. A central secure area for visiting scientists, engineers, and dignitaries and building users will not be provided, adversely affecting quality of work as well as the security of classified research occurring in the facility.

ADDITIONAL: Companion repair project ZHTV032047B, Repair Vestibule, accomplishes interior repairs and reconfiguration of the vestibule area within the facility footprint.

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

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WRIGHT PATTERSON AIR FORCE BASE, OHIO	CONSTRUCT FUELS STORAGE PAD

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62203	318-632	ZHTV032808	EEIC 529 300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				240.0
CONSTRUCT FUELS STORAGE PAD	LS			(240.0)
SUBTOTAL				240.0
PROFIT AND OVERHEAD (25 %)				60.0
TOTAL FUNDED COST				300.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				300.0

10. Description of Proposed Work: Excavate, provide compacted aggregate, structural concrete, and curbing. All labor and materials to construct a concrete storage pad adjacent to 20092

11. Requirement: As Required.

PROJECT: Construct Fuels Storage Pad. (Minor Construction using FY05 RDT&E funds)

REQUIREMENT: A paved storage area is required for the safe and efficient storage of fuels and lubricants used in research and development of turbine engines, advanced propulsion systems, and improved fuels and lubricants. The existing paved/covered storage area has exceeded its capacity due to increased fuels/lubricants use, and must be expanded by paving a gravel storage area.

CURRENT SITUATION: 20092, comprising a shed and open storage, is the storage facility for fuels and lubricants used in propulsion lab research and experimentation. Fuels and lubricants are stored in this facility in drums and racks, with fuel drums being transported several times a week to and from the propulsion laboratory complex. The ambient drum storage requirement is increasing, cramping the available storage space, and forcing drums to be stored on adjacent gravel surfaces. Drums can no longer be safely stored, loaded and unloaded due to cramped conditions. Forklifts and other vehicles have become stuck in the gravel overflow storage area on several occasions during drum loading and unloading operations.

IMPACT IF NOT PROVIDED: The current situation is causing delays in research as drum movement will be curtailed due to congested storage area and as transport vehicles get stuck in the overflow drum storage area. Lack of an adequate storage area to support an increase in fuel and lubricants usage will inhibit the propulsion laboratories ability to accomplish planned research, experimentation, and development. The lack of storage capacity will result in laboratory activities being delayed and rescheduled due to lack of fuel and lubricants.

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

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WRIGHT PATTERSON AIR FORCE BASE, OHIO	CONSTRUCT SUPPORT FACILITY FOR GEOLAB

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62204	318-612	ZHTV030043	EEIC 529 70

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				56.0
CONSTRUCT SUPPORT FACILITY FOR GEOLAB	LS			(56.0)
SUBTOTAL				56.0
PROFIT AND OVERHEAD (25 %)				14.0
TOTAL FUNDED COST				70.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				70.0

10. Description of Proposed Work: Excavate and accomplish site demolition, provide all labor and materials to provide a 40'x25' concrete pad and to construct 10' x 20' supporting storage building. Provide power and intercom, LAN, and telephone communications connections to adjacent lab facility 20620.

11. Requirement: As Required.

PROJECT: Construct Support Facility for the GEOLAB. (Minor Construction using FY05 RDT&E funds).

REQUIREMENT: An on-base support facility is required for mobile laboratories used in the "ladar" sensors research program to permit calibration of research data, downloading of data, and the safe movement and parking of the mobile labs.

CURRENT SITUATION: The GEOLAB is a mobile facility (trailer containing electronics and research apparatus) supporting the "ladar" (laser + radar) R&D effort. The GEOLAB is used to provide optical lab support of ground-to-test range, ground-to-air, and pre-deployment testing at remote test sites. Information collected at the remote sites is stored in the GEOLAB and "downloaded" into permanent Sensors Directorate laboratories in 20622 when the the GEOLAB returns to base. Presently there are two GEOLABs operated in rotation; one in the field, the other on-base. The GEOLABs are rotated into a privately owned vehicle (POV) parking lot in the rear of 20622. This parking lot does not have a clear view of the on-base Area B test range and the southwest to northwest night sky, which the GEOLAB must use to calibrate research apparatus and do comparison testing between remote and on-base results. The lot is also congested, making it difficult to maneuver the GEOLAB trailer to its parking site. Lack of space also means that in the event both GEOLABs are needed on base only one can be accommodated, resulting in a GEOLAB standing idle at a remote location until space can be made available.

IMPACT IF NOT PROVIDED: Failure to relocate the GEOLAB to a dedicated parking pad (with supporting storage space and utilities) will adversely impact the accuracy of the research results due to the difficulty of calibrating apparatus caused by poor visibility, leading to delays in the research program as experimental data has to be double-checked and experiments re-accomplished. The congested POV parking lot also puts the GEOLAB trailers at risk of damage due to the difficulty of maneuvering the trailers through tight clearances.

1. COMPONENT AIR FORCE	FY 2007 PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE, NEW MEXICO	CONSTRUCT LABORATORY SUPPORT SPACE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
62202	312-477	MHMV011664	EEIC 529 460

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				460.0
CONSTRUCT LAB SUPPORT SPACE B472	LS			(460.0)
SUBTOTAL				460.0
PROFIT AND OVERHEAD (0 %)				0.0
TOTAL FUNDED COST				460.0
UNFUNDED COST (0 %)				0.0
TOTAL REQUEST				460.0

10. Description of Proposed Work: Construct additional secure laboratory support space adjacent to the high-bay Science and Technology (S&T) laboratories in building 472 with secure access and sound attenuation to STC 45. Addition will be lightweight concrete slab on open web steel bar joists with walls, flooring, ceiling, lighting, heating, ventilation, and air conditioning, and appropriate fire detection/suppression.

11. Requirement: As Required.

PROJECT: Construct Laboratory Support Space, Building 472. (Minor Construction using FY07 RDT&E funds)

REQUIREMENT: Colocation of laboratory analysis, engineering, and management support space with their respective high-bay Science and Technology laboratories is required to improve efficiencies and to reduce S&T costs.

CURRENT SITUATION: The existing facility's layout is inadequate to provide the additional square footage of secure laboratory support space needed within Building 472. Current laboratory support space is housed in other facilities remote from their respective high-bay laboratories.

IMPACT IF NOT PROVIDED: Operational costs will continue to be higher than necessary due to the split operation. Science and Technology professionals will continue to waist unnecessary manhours in travel time between support space and high-bay laboratories that could be better utilized in performing and studying actual experiments.