Department of the Air Force

Military Construction Program

Fiscal Year (FY) 2017

Documentation to reflect changes to the CNMI Land Acquisition & European Reassurance Initiative (ERI) requests

Justification Data Submitted to Congress
June 2016

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1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
UNSPECIFIED LOCATION COMMONWEALTH OF NORTHERN MARIANA ISLANDS	APR LAND ACQUISITION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	911-146	/PAF160300	9,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				8,050
LAND ACQUISITION	HA	142	56,690	(8,050)
SUPPORTING FACILITIES				0
SUBTOTAL				8,050
CONTINGENCY (5.0%)				402
TOTAL CONTRACT COST				8,452
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				549
TOTAL REQUEST				9,002
TOTAL REQUEST (ROUNDED)				9,000

10. Description of Proposed Construction: Acquires approximately 142 hectares of land (in fee or long-term lease) for the construction of Air Force military training facilities and infrastructure in support of Air Operations for divert, training exercises, and natural disaster response. Land parcels are to be acquired from the Commonwealth of Northern Mariana Islands (CNMI) through the Commonwealth Port Authority.

Air Conditioning: 0 Tons

11. Requirement: 142 HA Adequate: 0 HA Substandard: 0 HA

PROJECT: Asia-Pacific Resiliency (APR) Land Acquisition (New Mission).

REQUIREMENT: The Air Force will acquire land either in fee or by long term lease for the construction of Air Force military training facilities and infrastructure in support of Air Operations for divert, training exercise, and natural disaster response in the CNMI. The Air Force intends to acquire an interest in this land for a minimum of 25 years. The Air Force is prepared to lease the property at a higher cost in order to conform to the policy stated in the 1976 Covenant between CNMI and the United States to acquire only the minimum real property interest necessary to meet the mission requirement, which in this case is a lease. However, the Air Force is willing to purchase by fee if the CNMI government is willing to sell it.

CURRENT SITUATION: The Air Force is evaluating several options for the Divert and Exercise Mission within the CNMI. Regardless of which option is selected as the final option, existing federally leased land in CNMI does not include land parcels required for facilities and infrastructure supporting construction and operational requirements in connection with the Divert and Exercise Mission within the CNMI. Therefore, acquisition of non-Federal land in fee or by long term lease is required at the subject location. This project allows NAVFACPAC to begin land acquisition discussions for the entire DoD requirement, with initial emphasis for the Air Force Requirement. It is important to begin negotiations now because land acquisition discussions are estimated to take 12 to 18 months to complete.

IMPACT IF NOT PROVIDED: Without securing rights for the needed land parcels, none

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3. INSTALLATION, SITE AND LOCATION UNSPECIFIED LOCATION COMMONWEALTH OF NORTHERN MARIANA ISLANDS	4. PROJECT TITLE APR LAND ACQUISITION	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	911-146	/PAF160300	9,000

of the projects that support the Divert and Exercise Mission within CNMI can be constructed. Initial Air Operations capability cannot be achieved until these facilities are constructed, depriving the Air Force of this much-needed operational capability.

HISTORY OF BASE BOUNDARY: N/A

LONG TERM REAL ESTATE: Land acquisition costs cannot be negotiated with CNMI until a Record of Decision is signed, estimated to occur in August 2016. This will select a final location for the exercise/divert requirement. APR Land Acquisition: 142 Hectares = 350 Acres.

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5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	911-146	/PAF160300	9,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	29-JUN-15
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2016	15%
* (d) Date 35% Designed	31-MAR-16
(e) Date Design Complete	30-SEP-16
(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	150
(b) All Other Design Costs	50
(c) Total	200
(d) Contract	200
(e) In-house	0
(4) Construction Contract Award	**17 FEB**
(5) Construction Start	**17 MAR**
(6) Construction Completion	**18 DEC**

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

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

DEPARTMENT OF THE AIR FORCE
EUROPEAN REASSURANCE INITIATIVE MILITARY CONSTRUCTION FISCAL YEAR 2017
PROGRAM SUMMARY (REVISED)

	Authorization Request ($000s)	Appropriation Request ($000s)
Total Military Construction	**68,280**	**68,280**

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DEPARTEMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
INDEX - EUROPEAN REASSURANCE INITIATIVES
(DOLLARS IN THOUSANDS)

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
BULGARIA	Graf Ignatievo AB	ERI: Construct Squadron Operations	3,800	3,800
		ERI: Fighter Ramp Extension	7,000	7,000
		Graf Ignatievo AB TOTAL:	10,800	10,800
		BULGARIA TOTAL	10,800	10,800
ESTONIA	Amari AB	ERI: Construct Bulk Fuel Storage	6,500	6,500
		Amari AB TOTAL:	6,500	6,500
		ESTONIA TOTAL	6,500	6,500
GERMANY	Spangdahlem AB	ERI: F/A-22 Low Observable/Composite	18,000	18,000
		ERI: F/A-22 Upgrade Infrastructure/Communications/Utilities	580	580
		ERI: Upgrade Hardened Aircraft Shelters for F/A-22	2,700	2,700
		Spangdahlem AB TOTAL:	21,280	21,280
		GERMANY TOTAL:	21,280	21,280
LITHUANIA	Siauliai AB	ERI: Munitions Storage	3,000	3,000
		Siauliai AB TOTAL:	3,000	3,000
		LITHUANIA TOTAL:	3,000	3,000
POLAND	Lask AB	ERI: Construct Squadron Operations	4,100	4,100
		Lask AB TOTAL:	4,100	4,100
	Powidz AB	ERI: Construct Squadron Operations	4,100	4,100
		Powidz TOTAL:	4,100	4,100
		POLAND TOTAL:	8,200	8,200
ROMANIA	Campia Turzii AB	ERI: Construct Munitions Storage Area	3,000	3,000
		ERI: Construct Squadron Operations Building	3,400	3,400
		ERI: Construct Two-Bay Hangar	6,100	6,100
		ERI: Extend Parking Apron	6,000	6,000
		Campia Turzii AB TOTAL:	18,500	18,500
		ROMANIA TOTAL:	18,500	18,500
		EUROPEAN REASSURANCE INITIATIVES TOTAL:	68,280	68,280

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1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
GRAF IGNATIEVO BULGARIA	ERI: CONSTRUCT SQUADRON OPERATIONS/OPERATION ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/LBPG150009	3,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				2,608
SQUADRON OPERATIONS FACILITY	SM	827	3,154	(2,608)
SUPPORTING FACILITIES				689
UTILITIES	LS			(356)
PAVEMENTS	LS			(196)
ENVIRONMENTAL MITIGATION (2%)	LS			(52)
PASSIVE FORCE PROTECTION MEASURES (2%)	LS			(52)
SITE IMPROVEMENTS	LS			(33)
SUBTOTAL				3,297
CONTINGENCY (5.0%)				165
TOTAL CONTRACT COST				3,462
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				225
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				132
TOTAL REQUEST				3,819
TOTAL REQUEST (ROUNDED)				3,800)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(388

10. Description of Proposed Construction: Construct a Squadron Operations Facility using conventional design and construction methods. Construction includes flight planning, pilot briefing rooms, administration, life support maintenance, ready room, support area, and secure storage. In addition, the facility will include a fire protection and alarm system, and a supervisory control system for energy management. Electrical and infrastructure upgrades will also be included as necessary. Supporting facilities include site development, utility connections, lighting, paving, parking, walks, storm drainage, landscaping, and signage. Low-impact development integrated management practices (LID-IMPs) are included. The facility is intended to be compatible with applicable Department of Defense (DoD), Air Force, NATO, and host-nation design standards. In addition, local materials and construction techniques shall be used where required and/or appropriate. Design and construction efforts will be executed in accordance with the host-nation agreements, including construction and environmental permits. The facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.

11. Requirement: 827 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: ERI:CONSTRUCT SQUADRON OPERATIONS/OPERATION ALERT FACILITY (ERI)

REQUIREMENT: The European Reassurance Initiative (ERI) in support of Operation Atlantic Resolve bolsters the security of our NATO allies and partners in Europe.

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION GRAF IGNATIEVO BULGARIA	4. PROJECT TITLE ERI: CONSTRUCT SQUADRON OPERATIONS/OPERATION ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/LBPG150009	3,800

Bulgaria is a NATO member state and, as such, has a requirement to host deployed U.S. forces. This facility will be capable of supporting both visiting and deployed U.S. Forces. The facility will also support the NATO Air Policing mission, the U.S. Theater Security Package, NATO and U.S. training events, U.S. Fighter Training Deployments, and other Host Nation exercises. The construction of a squadron operations facility at Graf Ignatievo Air Base, Bulgaria will improve airfield and support infrastructure. A key enabler for training and combat operations is substantial infrastructure at key locations to support military activities. The Squadron Operations Facility will be programmed with the versatility to host deployed squadrons supporting weapons systems such as the F-15 Eagle and A-10 Warthog. This project will support deployed and visiting aquadrons, up to twelve aircraft.This Squadron Operations Facility will improve mission readiness and force protection, directly improving airfield operations for greater responsiveness during bilateral and multilateral exercises and training with allies and partners in addition to providing expeditious service to the aircrews who deliver a decisive response to tactical missions and contingency support operations.

CURRENT SITUATION: An adequate Squadron Operations Facility is not available at Graf Ignatievo AB. Currently space in a newly constructed NATO Squadron Operations Facility is utilized when available, however space is severely limited during exercises limiting when U.S. forward presence deployments can be scheduled. Additional space in a NATO hangar and aircraft parts warehouse is utilized. These temporary accommodations are undersized, in poor condition, do not contain proper secure space for briefings and classified storage, and are not configured for the operational squadrons that are required to work, train, deploy, and fight as independent squadrons. Utility/technical requirements are also non-existent in the currently utilized facilities including grounding/static rails for electrostatic discharge in the life support area, adequate power and wiring, non-secure telecommunications, central intercom, and video conferencing. To enable accessibility to the aircraft, maintainers and crew chiefs are using various spaces spread out between existing buildings along the main apron to store unit International Airlift-Helicopter Slingable Container Units (ISU) and the modular Deployed Debriefing Facility (DDF).

IMPACT IF NOT PROVIDED: The lack of adequate space will force the squadron to conduct multiple mission briefings increasing manhours and impeding both ground and flight safety. Insufficient life support areas will reduce the availability of life support equipment possibly reducing equipment life. These limitations will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability, readiness, and contingency support to operations.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual (AFMAN) 32-1084, Facility Requirements and the Air Combat Command Squadron Operations and Aircraft Maintenance Unit Design Guide. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs, new construction. Therefore, a complete economic analysis was not performed. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMeans were used

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5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/LBPG150009	3,800

to develop the estimate for this project. This project will be submitted for NATO pre-financing. Force protection measures are considered IAW USAF Installation Protection Guide. POC: +49-6371-476773, Aircraft Squadron Operations Facility: 827 SM = 8,901 SF. Support facilities exceed 25 percent of the primary facilities cost due to the requirement for pavements and utility runs.

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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3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAF IGNATIEVO BULGARIA	ERI: CONSTRUCT SQUADRON OPERATIONS/OPERATION ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/LBPG150009	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 209

(4) Construction Contract Award 17 AUG

(5) Construction Start 17 OCT

(6) Construction Completion 19 JUN

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2019	46
FURNISHINGS	3400	2019	342

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
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3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
GRAF IGNATIEVO BULGARIA	ERI: FIGHTER RAMP EXTENSION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	/LBPG150008	7,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				4,796
PARKING APRON	SM	13,382	358	(4,796)
SUPPORTING FACILITIES				1,248
SITE IMPROVEMENTS	LS			(986)
UTILITIES	LS			(128)
ENVIRONMENTAL MITIGATION (2%)	LS			(96)
DEMOLITION	SM	142	267	(38)
SUBTOTAL				6,044
CONTINGENCY (5.0%)				302
TOTAL CONTRACT COST				6,346
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				412
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				242
TOTAL REQUEST				7,000
TOTAL REQUEST (ROUNDED)				7,000

10. Description of Proposed Construction: Construct a Tactical Fighter Aircraft (TFA) Parking Apron using conventional design and construction methods to accommodate weapon systems such as the F-15 Eagle and A-10 Warthog. The facility is intended to be compatible with applicable Department of Defense (DoD), Air Force, and the North Atlantic Treaty Organization (NATO) design standards. In addition, local materials and construction techniques shall be used where cost-effective. Construction includes 13,382 SM of apron pavement using medium-load design portland cement concrete (PCC), asphalt shoulders, a separation layer, a drainage layer, a base course layer, a drainage system, edge lighting, pavement markings, and earthwork and grading. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 3-260-01, Airfield and Heliport Design, and UFC 1-202-01, Host Nation Facilities in Support of Military Operations. This project will comply with DoD antiterrorism requirements per UFC 4-010-01. Demolish 1 building at Graf Ignatievo Air Base, Bulgaria.

11. Requirement: 13382 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: ERI: FIGHTER RAMP EXTENSION (ERI)

REQUIREMENT: The European Reassurance Initiative (ERI) bolsters the security of our NATO allies and partners in Europe. Bulgaria is a NATO member state and, as such, has a requirement to host deployed U.S. forces. This facility will be capable of supporting both visiting and deployed U.S. Forces, by accommodating up to twelve aircraft. The Apron will increase maintenance and aircrew accessibility and timeliness of sortie generation due to the proximity to the TFA Maintenance Hangar and Squadron Operations Facility. This project will directly improve airfield presence and bolster airfield capability and readiness to support

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3. INSTALLATION, SITE AND LOCATION GRAF IGNATIEVO BULGARIA	4. PROJECT TITLE ERI: FIGHTER RAMP EXTENSION	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	/LBPG150008	7,000

bilateral and multilateral exercises and training with allies and partners. The facility will also support the NATO Baltic Air Policing mission, the U.S. Theater Security Package, NATO and U.S. training events, U.S. Fighter Training Deployments, and other host nation exercises.

CURRENT SITUATION: An adequate TFA Parking Apron capable of supporting required weapon systems is not currently available. The 2014 Expeditionary Site Plan indicates there are four aircraft parking aprons at the airfield with one noted as unusable. The Host Nation and transient aircraft regularly utilize two of the available aprons. Due to multiple obstructions, wing-walkers are recommended if U.S. tactical fighter aircraft utilize these aprons. The third available apron is the three-ship West Arm/Disarm Pad and requires Host Nation coordination prior to use. PCC thickness for the three active aprons is unknown. Requisites developed by the Pavement-Transportation Computer Assisted Structural Engineering (PCASE) system indicate a pavement thickness of 16.85 inches is necessary.

IMPACT IF NOT PROVIDED: If this project is not provided, the airfield will have limited use as the condition of the existing aprons worsen. The FOD and safety risks will increase exponentially. These limitations will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability and readiness and contingency support.

ADDITIONAL: This project meets applicable criteria/scope specified in Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields, UFC 3-260-01, Airfield and Heliport Design, UFC 1-202-01, Host Nation Facilities in Support of Military Operations, and Air Force Manual 32-1084 Facility Requirements. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs, new construction. Therefore, a complete economic analysis was not performed. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMeans were used to develop the estimate for this project. This project will be submitted for NATO pre-financing. Force protection measures are considered IAW USAF Installation Protection Guide. POC: +49-6371-476773, Tactical Fighter Aircraft Parking Apron: 13,382 SM = 16,005 SY, Demo: 142 SM = 1,530 SF. Support facilities exceed 25 percent of the primary facilities cost due to the requirement for site improvements.

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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3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAF IGNATIEVO BULGARIA	ERI: FIGHTER RAMP EXTENSION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	/LBPG150008	7,000

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 384

(4) Construction Contract Award 17 AUG

(5) Construction Start 17 SEP

(6) Construction Completion 18 SEP

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

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

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
AMARI AIR BASE ESTONIA	ERI: CONSTRUCT BULK FUEL STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	411-135	/EEEI150006	6,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				1,407
BULK FUEL STORAGE W/PUMP HOUSE	CM	1,000	1,407	(1,407)
SUPPORTING FACILITIES				4,185
LOOP PIPELINE SYSTEM	LM	1,900	1,416	(2,690)
MANIFOLD/FILTER STATION	SM	240	3,554	(853)
PAVING	LS			(283)
STORAGE BLDG	SM	40	2,875	(115)
WATER, SEWER, GAS UTILITIES	LS			(87)
ELECTRIC SERVICE	LS			(70)
DRAIN TANK	CM	10	3,800	(38)
ATFP	LS			(31)
SITE IMPROVEMENTS	LS			(18)
SUBTOTAL				5,592
CONTINGENCY (5.0%)				280
TOTAL CONTRACT COST				5,872
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				382
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				224
TOTAL REQUEST				6,477
TOTAL REQUEST (ROUNDED)				6,500)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(539

10. Description of Proposed Construction: Construct bulk fuel storage facility. Project includes bulk fuel storage tanks with automatic tank gauges and pump house; underground, double-walled, hydrant loop pipelines; a facility for filtration, distribution of fuel, incorporating the existing fuel storage facility with the newly constructed fuel storage facility; piping systems; controls; and storage building. Supporting facilities will include site preparation, electrical distribution, exterior lighting, roads, security fencing, and storm drainage. Facilities will be designed in accordance with the DoD UFC 1-202-01, Host Nation Facilities in Support of Military Operations. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Facilities shall be constructed using conventional design and construction methods to accommodate the requirements of the visiting North Atlantic Treaty Organization (NATO) force. The facility shall be compatible with Host Nation and Base design standards and comply with applicable NATO standards. General fuel system design shall be based on NATO Standards AC/4-M(96)001 and STANAG 3784 DDP (Edition 5). Fire protection shall be based on Host Nation Standards.

11. Requirement: 1750 CM Adequate: 750 CM Substandard: 0 CM

PROJECT: ERI: Construct Bulk Fuel Storage (ERI)

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3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
AMARI AIR BASE ESTONIA	ERI: CONSTRUCT BULK FUEL STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	411-135	/EEEI150006	6,500

REQUIREMENT: The European Reassurance Initiative (ERI) in support of Operation Atlantic Resolve bolsters the security of our NATO allies and partners in Europe. Estonia is a NATO member state and, as such, has a requirement to host deployed US forces. This facility will be capable of supporting both visiting and deployed US Forces.

Bulk Fuel Storage is required to provide the necessary infrastructure for US and NATO allies to safely and efficiently meet ERI and Operation Atlantic Resolve air mobility requirements. The existing fuel storage capacity at the Amari Air Base is approximately 750 m3. An additional 1,000 m3 of fuel storage is required to meet the US Air Force fuel requirements for contingency operations. Furthermore, it is urgently required to reduce the timeframe of delivering fuel to the airplanes, since the current practices do not meet NATO Standards. Properly sized, configured, and conditioned facilities are required to support the operators. This project will enhance the US and NATO allies capabilities to support the Baltic Air Policing mission and conduct joint and combined operations.

CURRENT SITUATION: Amari Air Base does not have enough fuel storage capacity to accommodate fighter, cargo, and refueler aircraft fueling operations during contingency operations. Amari Air Base receives JA-1 from the Vopak E.O.S. (terminal) located at the Port of Tallinn, which is approximately 41 km from Amari. The Vopak terminal is resupplied by railcar from the AB Mazeikiu Nafta Terminal located 600 km away in Lithuania. Stocks of AVGAS/100LL are provided by Shell Finland and ferried across the Baltic Sea from Finland. Fuel is ordered through the Estonian Ministry of Defense, Logistics Center and arranged for delivery to the Air Base. Primary method of JA-1 receipt is via 34,000 liter (9,000-gallon) commercial tank truck, which is scheduled to provide direct delivery (require regular access to the Base) to Amari from the Port of Tallinn. Fuel deliveries are scheduled as required and typically have a lead time of 48-72 hours. Fueling the planes is done via military refuelers, which takes a long time to fuel airplanes (up to 11-12 hours).

IMPACT IF NOT PROVIDED: Since Amari Air Base does not have the required fuel storage and capability to load and unload fuel in a contingency operation, refueling times are dependent on the commercial contractor's ability to supply fuel in a timely manner to the Base. Fuel delivery to this remote location can be adversely impacted by the harsh weather conditions having a detrimental impact on the Rapid Response mission and is therefore acceptable. Provision for a properlysized and designed fuel facility is absolutely necessary. There is no other option for this construction project. Furthermore with limited airspace windows, all aircraft need to be armed and ready for takeoff on short notice to meet their schedules. Lengthy stays on the ground because of slow fuel flowrates is unacceptable.

ADDITIONAL: The project has been coordinated with and meets the Host Nation and Air Force requirements. A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs, new construction. A complete economic analysis was not performed. A request for waiver

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AMARI AIR BASE ESTONIA	ERI: CONSTRUCT BULK FUEL STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	411-135	/EEEI150006	6,500

has been submitted. This project will be submitted for NATO pre-financing. POC: +49-6371-476773. Bulk Fuel Storage: 1,000 M3 = 264,172 Gallons. Support facilities exceed 25 percent of the primary facilities cost due to the requirement for pavements and utility runs.

JOINT USE CERTIFICATION: These facilities can be used by others on an "as available" basis; however, the scope of the project is based on the US and NATO Air Force requirements. It is intended that these facilities be used by US and NATO partners when visiting or deployed to Amari Air Base.

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AMARI AIR BASE ESTONIA	ERI: CONSTRUCT BULK FUEL STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	411-135	/EEEI150006	6,500

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 260

(4) Construction Contract Award 17 MAR

(5) Construction Start 17 MAY

(6) Construction Completion 18 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
INOCULATION CARTS (2)	3400	2017	129
FF&E	3400	2017	40
HYDRANT CARTS (2)	3080	2017	370

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY	ERI: F/A-22 LOW OBSERVABLE/COMPOSITE REPAIR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	3298/VYHK170004	18,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				12,453
LOW OBSERVABLE COMPOSITE REPAIR FACILITY	SM	2,326	5,249	(12,209)
SISTAINABILITY AND ENERGY MEASURES (2%)	LS			(244)
SUPPORTING FACILITIES				3,131
UTILITIES	LS			(791)
SITE IMPROVEMENTS	LS			(1,037)
PAVEMENTS	LS			(409)
COMMUNICATIONS	LS			(109)
DEMOLITION	SM	408	614	(251)
ENVIRONMENTAL DAMAGE STUDY	LS			(15)
ENVIRONMENTAL NEW FACILITY	LS			(436)
ENVIRONMENTAL NEW PAVEMENT	LS			(82)
SUBTOTAL				15,584
CONTINGENCY (5.0%)				779
TOTAL CONTRACT COST				16,363
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,064
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				623
TOTAL REQUEST				18,050
TOTAL REQUEST (ROUNDED)				18,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(114

10. Description of Proposed Construction: Construct a new Low Observable (L/O) Composite Repair Facility at Spangdahlem Air Base (AB), Germany utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed and constructed as permanent construction in accordance with Department of Defense (DoD) Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements, UFC 1-200-02, High Performance and Sustainable Building Requirements, and UFC 4-211-01 Aircraft Maintenance Hangars: Type I and Type II, which is currently in update, as applicable. Construction of the new facility is cast-in-place concrete. Low-sloped roofs will enclose high-, medium-, and low-bay interior clearances. The high-bay area will include a coatings bay with paint booth structure and mechanical platform, the medium-bay includes shop space and storage areas and the low-bay section includes administrative functions, communications and server equipment, and rest rooms. Security enhancements include blast load resistant walls facing parking areas and a 10-meter (33-foot) stand-off distance. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

11. Requirement: 2326 SM Adequate: 0 SM Substandard: 0 SM

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY	ERI: F/A-22 LOW OBSERVABLE/COMPOSITE REPAIR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	3298/VYHK170004	18,000

PROJECT: ERI: F/A-22 LOW OBSERVABLE/COMPOSITE REPAIR FACILITY

REQUIREMENT: Construct a new L/O Composite Repair Facility for maintenance of F/A-22 aircraft. This project is necessary to support future United States Air Forces Europe (USAFE) contingency missions at Spangdahlem AB, Germany as part of the European Reassurance Initiative (ERI) in support of Operation Atlantic Resolve to increase support and commitment to North Atlantic Treaty Organization (NATO) allies in Central and Eastern Europe and to address a more dynamic security situation in Europe. This project supports the European Reassurance Initiative by improving infrastructure to support 5th Generation fighter rotational operations at Spangdahlem AB, Germany. Spangdahlem's geographic location and available ramp space make it an ideal location as a 5th Generation fighter rotational hub. Building 5th Gen capability at Spangdahlem supports future interoperability training as well as demonstrates the capacity to generate 5th Gen operations if required, in order to deter potential adversaries by increasing the presence of U.S. forces in Europe through additional rotations. Twelve F/A-22 aircraft and associated operations are planned for a contingency mission at Spangdahlem AB as part of the United States government commitment to ERI to increase military presence in central Europe.

CURRENT SITUATION: Spangdahlem AB currently supports A-10 and F-16 missions for USAFE. Existing facilities do not have either the capacity, or the proper configuration to support maintenance on the larger F/A-22 aircraft and its composite coating system.

IMPACT IF NOT PROVIDED: If not provided, the twelve F/A-22 aircraft required for the ERI contingency mission will not be adequately accommodated for critical L/O composite coatings maintenance and other repairs to be provided in this facility. Maintenance on these aircraft cannot be performed at facilities designed and tooled for F-16 and A-10 aircraft.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs, new construction. Therefore, a complete economic analysis was not performed and a request for waiver will be submitted. (IAW AFI 65-501, 1.2.2.2) The UFC 3-701-01, DoD Pricing Guide and RS Means were used to develop the estimate for this project. This project will be submitted for NATO pre-financing. Base Civil Engineer: DSN 452-6040. Construct New Low Observable Composite Repair Facility: 2,326 SM = 25,037 SF. Demolition: 0 SM = 0 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 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY	ERI: F/A-22 LOW OBSERVABLE/COMPOSITE REPAIR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	3298/VYHK170004	18,000

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 1,000

(4) Construction Contract Award 17 JAN

(5) Construction Start 17 APR

(6) Construction Completion 19 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 APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	2018	114

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY	ERI: F/A-22 UPGRADE INFRASTRUCTURE/COMMUNICATIONS/UTILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27578	135-101	3298/VYHK170002	580

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				400
OBSOLETE - COM LN OTH THAN TEL	LM	1,827	219	(400)
SUPPORTING FACILITIES				96
SITE PREPARATIONS	LS			(94)
SITE IMPROVEMENTS	LS			(3)
SUBTOTAL				497
CONTINGENCY (5.0%)				25
TOTAL CONTRACT COST				521
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				34
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				20
TOTAL REQUEST				575
TOTAL REQUEST (ROUNDED)				580)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(20

10. Description of Proposed Construction: Replace direct-buried copper communications cables with fiber optic cables in 14 earth covered magazines (ECMs) designated to house F/A-22 ordnance as part of the ERI F/A-22 contingency mission at Spangdahlem Air Base (AB), Germany. Construction includes abandoning existing copper cables, cutting and patching of existing road infrastructure where required, construction of concrete-encased duct bank, installation of single-mode fiber optic cable, and connections to the existing Intrusion Detection Systems (IDS). Duct bank installation will include communications hand holes and connection of the new fiber optic cable to the existing base-wide communications system/alarm system. This project will comply with Department of Defense (DoD) antiterrorism/force protection requirements per Unified Facilities Criteria (UFC) 4-010-01. Facilities will be designed as permanent construction in accordance with the DoD UFC 3-260-01, Airfield and Heliport Design and UFC 1-202-01, Host NationaL Facilities in Support of Military Operations.

11. Requirement: 1827 LM Adequate: 0 LM Substandard: 1827 LM

PROJECT: ERI: F/A-22 UPGRADE INFRASTRUCTURE/COMMUNICATIONS/UTILITIES

REQUIREMENT: Replace direct-buried copper communications cables with fiber optic cables to improve the reliability and security of IDS in 14 ECMs designated to house F/A-22 ordnance to support the European Reassurance Initiative (ERI) F/A-22 contingency mission at Spangdahlem AB, Germany. This project supports the European Reassurance Initiative by improving infrastructure to support 5th Generation fighter rotational operations at Spangdahlem AB, Germany. Spangdahlem's geographic location and available ramp space make it an ideal location as a 5th Generation fighter rotational hub. Building 5th Gen capability at Spangdahlem supports future interoperability training as well as demonstrates the capacity to generate 5th Gen operations if required, in order to deter potential adversaries by increasing the

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY	ERI: F/A-22 UPGRADE INFRASTRUCTURE/COMMUNICATIONS/UTILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27578	135-101	3298/VYHK170002	580

presence of U.S. forces in Europe through additional rotations. Twelve F/A-22 aircraft and associated operations are planned for a contingency mission at Spangdahlem AB as part of the United States government commitment to ERI to increase military presence in central Europe.

CURRENT SITUATION: The ECMs at Spangdahlem AB affected by this project range in construction year from 1959 through 1991. Existing copper cables that service the IDS for the ECMs are no longer reliable due to corrosion and breakdown over time. Replacement cables are needed to restore effective protection systems for ordnance stored within.

IMPACT IF NOT PROVIDED: If not provided, the munitions required for the F/A-22 aircraft required for the ERI contingency mission will not be adequately stored as required by the Air Force Munitions Facility Standards Guide 31 May 2004, and DoD 5100-76 17 April 2012.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. A complete economic analysis is in the process of being performed. The UFC 3-701-01, DoD Pricing Guide and RS Means were used to develop the estimate for this project. This project will be submitted for NATO pre-financing. Base Civil Engineer: DSN 452-6040. Replace MSA Security Wiring: 1,827 LM = 5,994 LF. Demolition: 0 SM = 0 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .9409

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 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY	ERI: F/A-22 UPGRADE INFRASTRUCTURE/COMMUNICATIONS/UTILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27578	135-101	3298/VYHK170002	580

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 30

(4) Construction Contract Award 17 JAN

(5) Construction Start 17 APR

(6) Construction Completion 17 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FIBER OPTIC CABLE	3400	2017	20

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY	ERI: UPGRADE HARDENED AIRCRAFT SHELTERS FOR F/A-22

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-182	3298/VYHK170001	2,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				84
HARDENED AIRCRAFT SHELTER	SM	7	12,057	(84)
SUPPORTING FACILITIES				2,233
SHELL MODIFICATIONS	LS			(123)
HVAC AND EXHAUST SYSTEM MODIFICATIONS	LS			(1,711)
ELECTRICAL SYSTEM MODIFICATIONS	LS			(399)
SUBTOTAL				2,317
CONTINGENCY (5.0%)				116
TOTAL CONTRACT COST				2,433
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				158
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				93
TOTAL REQUEST				2,684
TOTAL REQUEST (ROUNDED)				2,700

10. Description of Proposed Construction: Install vertical exhaust system modifications for F/A-22 aircraft in seven existing Hardened Aircraft Shelter/Protective Aircraft Shelter (HAS/PAS) buildings B3005, B3006, B3007, B3014, B3015, B3016, and B3020 at Spangdahlem Air Base (AB), Germany. Modifications include the addition of a hinged and retractable ducting system inside the aircraft bays, mechanical and electrical components to raise and lower the duct system, roof penetrations, exhaust flue on the exterior of the roof structure, and potential relocation of portions of existing electrical conduit, lighting and sensors that would be in conflict with the exhaust assembly. Facilities will be designed and constructed as permanent construction in accordance with Department of Defense (DoD) Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 4-211-01 Aircraft Maintenance Hangars: Type I and Type II, which is currently in update, as applicable. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

11. Requirement: 6511 SM Adequate: 0 SM Substandard: 6511 SM

PROJECT: ERI - F/A-22 Modify Aircraft Shelters (ERI)

REQUIREMENT: Modify seven existing HAS/PAS buildings to accept new vertical exhaust systems as required in aircraft shelters for F/A-22 aircraft slated for contingency mission to Spangdahlem AB as part of the European Reassurance Initiative (ERI). This project supports ERI by improving infrastructure to support 5th Generation fighter rotational operations at Spangdahlem AB, Germany. Spangdahlem's geographic location and available ramp space make it an ideal location as a 5th Generation fighter rotational hub. Building 5th Gen capability at Spangdahlem supports future interoperability training as well as demonstrates the capacity to generate 5th Gen operations if required, in order to deter potential adversaries by increasing the presence of U.S. forces in Europe through additional

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY	ERI: UPGRADE HARDENED AIRCRAFT SHELTERS FOR F/A-22

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-182	3298/VYHK170001	2,700

rotations. Twelve F/A-22 aircraft and associated operations are planned for a contingency mission at Spangdahlem AB as part of the United States government commitment to ERI to increase military presence in central Europe.

CURRENT SITUATION: Spangdahlem AB, Germany, currently supports A-10 and F-16 missions for U.S. Air Forces Europe (USAFE) in support of ERI and Operation Atlantic Resolve. Existing HAS/PAS are not configured for the F/A-22 aircraft required to deploy to Spangdahlem AB in support of ERI and Operation Atlantic Resolve. F/A-22 aircraft have a vertical exhaust feature that requires roof penetration and ducting to support engine ignition in an enclosed space. These aircraft will require hardened protection per Air Force Pamphlet (AFPAM) 10-219 v2 9 June 2008.

IMPACT IF NOT PROVIDED: If not provided, the F/A-22 aircraft required for the ERI contingency mission will not be adequately accommodated in existing shelters. Without vertical ventilation systems in place, equipment and facility structures will be damaged, including risk of fire. The health and safety of personnel in the vicinity of aircraft firing engines in shelters not adequately vented is at risk. If the new ventilation cannot be provided, the F/A-22 supporting the ERI contingency mission at Spangdahlem AB will have no shelter facilities in case of enemy attack, making the assets vulnerable to destruction.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs. Therefore, a complete economic analysis was not performed and a request for waiver will be submitted. The UFC 3-701-01, DoD Pricing Guide and RS Means were used to develop the estimate for this project. This project will be submitted for NATO pre-financing. Base Civil Engineer: DSN 452-6040. Modify Aircraft Shelters: 6,511 SM = 70,084 SF. Demolition: 0 SM = 0 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .9409

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 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY	ERI: UPGRADE HARDENED AIRCRAFT SHELTERS FOR F/A-22

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-182	3298/VYHK170001	2,700

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 150

(4) Construction Contract Award 17 AUG

(5) Construction Start 17 OCT

(6) Construction Completion 18 APR

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

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

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
SIAULIAI LITHUANIA	ERI: MUNITIONS STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
11113	145-921	/EYSA150022	3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				1,399
MUNITIONS STORAGE AREA	SM	1,200	1,166	(1,399)
SUPPORTING FACILITIES				1,178
SITE IMPROVEMENTS	LS			(855)
PAVEMENTS	SM	1,187	265	(315)
UTILITIES	LS			(5)
GENERATOR	LS			(3)
SUBTOTAL				2,577
CONTINGENCY (5.0%)				129
TOTAL CONTRACT COST				2,706
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				176
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				103
TOTAL REQUEST				2,985
TOTAL REQUEST (ROUNDED)				3,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(10

10. Description of Proposed Construction: Construct a covered Munitions Storage Area (MSA) on an existing former Soviet aircraft parking pad utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed in accordance with the Department of Defense (DoD) Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations, as applicable. Construction includes a steel truss supporting structure, corrugated metal roof, metal sheathing on three sides to protect occupants against climate conditions, and lightning protection system over the existing concrete pad. Security enhancements include perimeter fence and access gate sized to allow for 12 meter (40 feet) long munitions loaders. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads, and winter weather conditions as prescribed in applicable codes and design guides. Special foundations will be included for sub-arctic conditions. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

11. Requirement: 1200 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: ERI: MUNITIONS STORAGE (ERI)

REQUIREMENT: The European Reassurance Initiative (ERI) in support of Operation Atlantic Resolve bolsters the security of our NATO allies and partners in Europe. Lithuania is a NATO member state and, as such, has a requirement to host deployed US forces. This facility will be capable of supporting both visiting and deployed US Forces. The MSA will directly improve prepositioning and weapons storage capabilities for Aligned Forces and provide the ability to deliver a decisive

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION, SITE AND LOCATION SIAULIAI LITHUANIA	4. PROJECT TITLE ERI: MUNITIONS STORAGE	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
11113	145-921	/EYSA150022	3,000

response against any threats made by aggressive actors in the region.

Construct a restricted MSA with a shelter over a paved pad for loading, unloading, staging, and maintenance of munitions carried by the various fighter aircraft supporting United States, Host Nation and North Atlantic Treaty Organization (NATO) missions. Original Soviet concrete aircraft parking pads, in fair to good condition, still exist outside of the perimeter fence at Siauliai AB, but they are unused. The Lithuanian Government is planning to relocate the fence line to incorporate the parking pads within the airfield. This project utilizes the existing asset, which is easily and more economically converted to the needed requirement. The proposed site location was recommended because it is expected to have the least amount of impact to encroaching municipal development and occupied buildings on the airfield; however, the site is adjacent to planned civilian industrial lots and it should be noted that portions of lots 33-37 encroach on the 381 meter (1,250 foot) blast radius. Munitions storage is needed to support 24 fighter aircraft.

CURRENT SITUATION: Siauliai AB, Lithuania currently serves to support the NATO-wide Theater Security Package (TSP) Air Policing and training missions of USAFE, the Host Nation Air Forces and NATO forces. Siauliai AB is built on a former cold war-era Soviet airfield. There is no long term munitions storage area available, particularly in an area at a safe distance from occupied buildings and surrounding municipal development. Currently, munitions are unloaded from aircraft, undergo maintenance, and are then re-loaded onto aircraft at the southwest corner of the airfield.

IMPACT IF NOT PROVIDED: Siauliai AB currently does not have the ability to store air-to-ground munitions, restricting the aircraft that can serve the airbase. Without long-term munitions storage, air policing and training missions will be limited. This limitation will be detrimental to flying operations, impair mission capability and readiness and constrain NATO flexibility and contingency options.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs, new construction. Therefore, a complete economic analysis was not performed and a request for waiver will be submitted. The UFC 3-701-01, DoD Pricing Guide and RS Means were used to develop the estimate for this project. Supporting facility cost exceeds 25% of the primary facilities because this project requires construction of blast protection berms and paving to properly accommodate munitions staging requirements. This project will be submitted for NATO pre-financing. Force protection measures are considered IAW USAF Installation Protection Guide. POC: +49-6371-476773. Munitions Storage Area: 1,200 SM = 12,917 SF.

FCF Budget Rate: EUROS .8950

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 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SIAULIAI LITHUANIA	ERI: MUNITIONS STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
11113	145-921	/EYSA150022	3,000

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 120

(4) Construction Contract Award 16 OCT

(5) Construction Start 16 NOV

(6) Construction Completion 17 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PERSONNEL OFFICE TRAILER	3400	2017	8
AIR COMPRESSOR SYSTEM	3400	2017	3

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LASK AB POLAND	ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/EPLK150006	4,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				2,775
SQUADRON OPERATIONS FACILITY	SM	878	3,160	(2,775)
SUPPORTING FACILITIES				773
UTILITIES	LS			(299)
PAVEMENTS	LS			(286)
SITE IMPROVEMENTS	LS			(78)
PASSIVE FORCE PROTECTION MEASURES	LS			(55)
ENVIRONMENTAL REMEDIATION	LS			(55)
SUBTOTAL				3,548
CONTINGENCY (5.0%)				177
TOTAL CONTRACT COST				3,725
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				242
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				142
TOTAL REQUEST				4,109
TOTAL REQUEST (ROUNDED)				4,100)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(388

10. Description of Proposed Construction: Construct a Squadron Operations Facility using conventional design and construction methods. Construction includes flight planning, pilot briefing rooms, administration, life support maintenance, ready room, support area, and secure storage. In addition, the facility will include a fire protection and alarm system, and a supervisory control system for energy management. Supporting facilities include site development, utility connections, lighting, paving, parking, walks, storm drainage, landscaping, and signage. Low-impact development integrated management practices (LID-IMPs) are included. The facility is intended to be compatible with applicable Department of Defense (DoD), Air Force, NATO and host-nation standards. In addition, local materials and construction techniques shall be used where required and/or appropriate. Design and construction efforts will be executed in accordance with the Host-Nation agreements, including construction and environmental permits. The facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations; and UFC 3-600-01 Fire Protection Engineering for Facilities. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.

11. Requirement: 878 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

REQUIREMENT: The European Reassurance Initiative (ERI) in support of Operation Atlantic Resolve bolsters the security of our NATO allies and partners in Europe. Poland is a NATO member state and, as such, has a requirement to host deployed US

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LASK AB POLAND	ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/EPLK150006	4,100

forces. This facility will be capable of supporting both visiting and deployed U.S. Forces. The Squadron Operations Facility will enhance military capability in the region and demonstrate a concrete expression of the support the U.S. is providing to allies and partners. To support ERI, USAFE requires a Lask AB Squadron Operations Facility programmed with the versatility to host deployed squadrons supporting weapons systems such as the F-15 Eagle and A-10 Warthog. This project will support deployed and visiting squadrons of up to twelve aircraft. This facility will also support the NATO Air Policing, the U.S. Theater Security Package, NATO and U.S. training events, U.S. Fighter Training Deployments, and U.S. participation in other Host Nation exercises. This Squadron Operations Facility will improve mission readiness and force protection, directly improving airfield operations for greater responsiveness during bilateral and multilateral exercises and training with allies and partners in addition to providing expeditious service to the aircrews who deliver a decisive response to tactical missions and contingency support operations.

CURRENT SITUATION: An adequate Squadron Operations Facility with the versatility to host various squadrons supporting various weapons systems is not available at Lask AB. All facilities on Lask Air Base are owned by the host nation and allow U.S. Forces to operate out of available facilities. All existing host nation facilities are fully utilized, are not advantageously sited, or are not available to U.S. Forces.

Current squadron operations for deployable U.S. Air Force and Air National Guard aviation units are performed in a former NATO pilot house, Building 15. The building is located north of the main apron currently used for deployable fighter aircraft along the northeastern edge of the flight line. Building 15 was constructed in 1958 and renovated in 2005. The building is approximately 378 SM (4,069 SF). Deployable aircraft maintainers and crew chiefs also utilize various spaces in and around the building because of its proximity to the main apron and the paved pad(s) to store unit Internal Airlift/Helicopter Slingable-Container Units (ISU) and the modular Deployed Debriefing Facility (DDF).

Building 15 is 43 percent of the authorized square footage for this facility type and is not configured properly for the operational squadrons that are required to work, train, deploy, and fight independently at this location.

This facility was also not designed for squadron operations, thus individual rooms are undersized for typical functions required for proper mission operations, briefings, and support life support equipment and maintenance. The life support area also requires grounding/static rails for electrostatic discharge, which is not provided at this facility. Much of the infrastructure required to support mission operations such as adequate power and wiring, non-secure telecommunications, central intercom, and video conferencing is lacking.

Also, expansion capability within this area is not feasible because of the close proximity of the Munitions Storage Area (MSA).

IMPACT IF NOT PROVIDED: If this project is not provided, the DoD will not have a Squadron Operations Facility with the versatility to host various squadrons supporting various weapons systems at Lask AB and achieve compliance with the ERI.

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LASK AB POLAND	ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/EPLK150006	4,100

The lack of adequate space will force the squadron to conduct multiple mission briefings, increasing man-hours and reducing both ground and flight safety. Insufficient life support areas will reduce the availability of life support equipment possibly reducing equipment life. These limitations will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability, readiness, and contingency support to operations.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual (AFMAN) 32-1084, Facility Requirements and the Air Combat Command Squadron Operations and Aircraft Maintenance Unit Design Guide. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs. Therefore, a complete economic analysis was not performed. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMeans were used to develop the estimate for this project. This project will be submitted for NATO pre-financing. Force protection measures are considered IAW USAF Installation Protection Guide. Aircraft Squadron Operations Facility: 878 SM = 9,450 SF; POC: DSN 314-480-6773; FCF BUDGET RATE: 3.955 ZLOTY

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 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LASK AB POLAND	ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/EPLK150006	4,100

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 222

(4) Construction Contract Award 17 AUG

(5) Construction Start 17 NOV

(6) Construction Completion 19 JUN

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2019	46
FURNISHINGS	3400	2019	342

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
POWIDZ AIR BASE POLAND	ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/EPPW170003	4,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				2,653
SQUADRON OPERATIONS FACILITY (141-753)	SM	834	3,181	(2,653)
SUPPORTING FACILITIES				848
PAVEMENTS	LS			(462)
UTILITIES	LS			(178)
SITE IMPROVEMENTS	LS			(102)
PASSIVE FORCE PROTECTION MEASURES (2%)	LS			(53)
ENVIRONMENTAL MITIGATION (2%)	LS			(53)
SUBTOTAL				3,501
CONTINGENCY (5.0%)				175
TOTAL CONTRACT COST				3,676
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				239
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				140
TOTAL REQUEST				4,055
TOTAL REQUEST (ROUNDED)				4,100)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(386

10. Description of Proposed Construction: Construct a Squadron Operations Facility using conventional design and construction methods. Construction includes flight planning and pilot briefing rooms, administration area, life support maintenance area, ready room, support area, and secure storage area. In addition, the facility will include a fire protection and alarm system, and a supervisory control system for energy management. Supporting facilities include site development, utility connections, lighting, paving, parking, walks, storm drainage, landscaping, and signage. Low-impact development integrated management practices (LID-IMPs) are included. The facility is intended to be compatible with applicable Department of Defense (DoD), Air Force, NATO, and Host-Nation design standards. In addition, local materials and construction techniques shall be used where required and/or appropriate. Design and construction efforts will be executed in accordance with the host-nation agreements, including construction and environmental permits. The facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations; and UFC 3-600-01 Fire Protection Engineering for Facilities. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.

11. Requirement: 834 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY (ERI)

REQUIREMENT: The European Reassurance Initiative (ERI) in support of Operation Atlantic Resolve bolsters the security of our NATO allies and partners in Europe. Poland is a NATO member state and, as such, has a requirement to host deployed US

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION, SITE AND LOCATION POWIDZ AIR BASE POLAND	4. PROJECT TITLE ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/EPPW170003	4,100

forces. This facility will be capable of supporting both visiting and deployed US Forces by storing up to category 1.1 explosives. The Squadron Operations Facility will enhance military capability in the region and demonstrate concrete expression of the support the U.S. is providing to allies and partners. To support this operation, USAFE requires a Squadron Operations Facility at Powidz AB programmed with the versatility to host deployed squadrons supporting wide-body airlift aircraft. This Squadron Operations Facility will improve mission readiness and force protection, directly improving airfield operations for greater responsiveness during bilateral and multilateral exercises and training with allies and partners enabling a decisive response against any threats made by aggressive actors in the region.

CURRENT SITUATION: An adequate Squadron Operations Facility with the versatility to host squadrons supporting weapons systems such as the C-130 Hercules is not available at Powidz AB. The host nation owns all facilities on Powidz and allows U.S. Forces to operate out of available facilities. However, all existing host nation facilities are fully utilized, are not advantageously sited, or are not available to U.S. Forces.

Current deployable unit squadron operations functions are performed from loaned space primarily within a small portion of Building 342, and very limited space within Building 91. Building 342 is located directly east of the existing Air Traffic Control Tower (Building 130). This space provides one open administrative area with connecting male and female latrines and one storage room. These temporary accommodations are undersized. Building 342 is approximately 22 percent of the authorized area 834 SM (8,978 SF) for this facility type and is not configured properly for the operational squadrons that are required to work, train, deploy, and fight as independent squadrons at this location. The space is essentially one large open room and does not allow for separation of individual functions, such as squadron commander office, mission planning, briefings, or life support.

This facility was also not designed for squadron operations, thus individual rooms are undersized for typical functions required for proper mission operations, briefings, and support life support equipment and maintenance. The life support area also requires grounding/static rails for electrostatic discharge, which is not provided at this facility. Much of the infrastructure required to support mission operations such as adequate power and wiring, non-secure telecommunications, central intercom, and video conferencing is lacking.

IMPACT IF NOT PROVIDED: If this project is not provided, the DoD will not have a Powidz AB Squadron Operations Facility with the versatility to safely host squadrons supporting wide-body airlift aircraft in order to expand mobility capabilities in the European theater. The lack of adequate space will force the squadron to conduct multiple mission briefings increasing manhours and potentially affecting both ground and flight safety. Insufficient life support areas will reduce the availability of life support equipment possibly reducing equipment life.

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
POWIDZ AIR BASE POLAND	ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/EPPW170003	4,100

These limitations will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability, readiness, and support to contingency operations.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual (AFMAN) 32-1084, Facility Requirements and the Air Combat Command Squadron Operations, Aircraft Maintenance Unit Design Guide and Air Mobility Command Interior Design Guide. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs. Therefore, a complete economic analysis was not performed. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMeans were used to develop the estimate for this project. This project will be submitted for NATO pre-financing. Force protection measures are considered IAW USAF Installation Protection Guide. Aircraft Squadron Operations Facility: 834 SM = 8,978 SF Support facilities exceed 25 percent of the primary facilities cost due to the requirement for pavements and utility runs. POC: DSN 314-480-6773

FCF BUDGET RATE: 3.955 ZLOTY

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 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
POWIDZ AIR BASE POLAND	ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/EPPW170003	4,100

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 212

(4) Construction Contract Award 17 AUG

(5) Construction Start 17 OCT

(6) Construction Completion 19 JUN

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2019	44
FURNISHINGS	3400	2019	342

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
CAMPIA TURZII ROMANIA	ERI: CONSTRUCT MUNITIONS STORAGE AREA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	422-264	/LRCT150008	3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				1,531
STORAGE IGLOO	SM	372	4,117	(1,531)
SUPPORTING FACILITIES				1,052
PAVEMENTS	LS			(448)
UTILITIES	LS			(371)
SITE IMPROVEMENTS	LS			(171)
PASSIVE FORCE PROTECTION MEASURES (2%)	LS			(31)
ENVIRONMENTAL MITIGATION (2%)	LS			(31)
SUBTOTAL				2,583
CONTINGENCY (5.0%)				129
TOTAL CONTRACT COST				2,713
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				176
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				103
TOTAL REQUEST				2,992
TOTAL REQUEST (ROUNDED)				3,000

10. Description of Proposed Construction: Construct a Munitions Storage Area (MSA) using conventional design and construction methods to accommodate tactical fighter-related munitions associated with operational aircraft at Campia Turzii, Romania. Construction includes 24" earth-covered concrete and steel magazine(s) with 7-bar construction on doors. The facilities will include a lightning protection system, fire alarm system and a supervisory control system for energy management. Supporting facilities include site development, utility connections, new access road to MSA, security fencing w/vehicle gate, lighting, paving, parking, storm drainage, berm, landscaping, and signage. Low-impact development integrated management practices (LID-IMPs) are included. The facility is intended to be compatible with applicable Department of Defense (DoD), Air Force, NATO, and host nation design standards. In addition, local materials and construction techniques shall be used where required and/or appropriate. Design and construction efforts will be executed in accordance with the host nation agreements, including construction and environmental permits. The facility will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.

11. Requirement: 372 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: ERI: CONSTRUCT MUNITIONS STORAGE AREA (ERI)

REQUIREMENT: The European Reassurance Initiative (ERI) in support of Operation Atlantic Resolve bolsters the security of our NATO allies and partners in Europe. Romania is a NATO member state and, as such, has a requirement to host deployed US

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION CAMPIA TURZII ROMANIA	4. PROJECT TITLE ERI: CONSTRUCT MUNITIONS STORAGE AREA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	422-264	/LRCT150008	3,000

forces. This facility will be capable of supporting both visiting and deployed US Forces. The MSA will directly improve prepositioning and weapons storage capabilities for Aligned Forces and provide the ability to deliver a decisive response against any threats made by aggressive actors in the region.

CURRENT SITUATION: An adequate MSA capable of supporting tactical fighter aircraft is not available. Current munitions operations are conducted from two pads with a combined gross area of 5,120 square meters (SM). These facilities are adjacent to each other at the south end of the airfield and are operated by Host Nation (HN) and U.S. forces. The two pads; 1,595 SM (operated by HN forces) and 3,525 SM (operated by U.S. forces), are constructed of rigid pavement and are each surrounded by a berm approximately 3 meters (m) in height. Enclosed storage for munitions inventory is not available at Campia Turzii AB. Current procedure requires assigned Airmen to process and store munitions on this pad, with no protection from the elements and safeguards necessary for storing assigned munitions.

IMPACT IF NOT PROVIDED: If this project is not provided, the DoD will not have an adequate MSA at Campia Turzii, Romania capable of supporting tactical fighter aircraft missions and contingency operations. Currently, there are significant limitations on the ability to accomplish the mission. Up to 1.1 rated munitions cannot be stored on site for use in peacetime and contingency operations. Lack of adequate space for storage of munition containers directly impacts the ability to meet operational requirements. Failure to fund this project will restrict operations, significantly impact throughput, and limit the Department's ability to support peacetime and
contingency operations.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual (AFMAN) 32-1084, Facility Requirements, the Air Force Munitions Facilities Standards Guide, and Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs, new construction. Therefore, a complete economic analysis was not performed and request for waiver will be submitted. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMeans were used to develop the estimate for this project. This project will be submitted for NATO pre-financing. Force protection measures are considered IAW USAF Installation Protection Guide. POC: +49-6371-476773. Munitions Storage Area Facility: 372 SM = 4,000 SF. Support facilities exceed 25 percent of the primary facilities cost due to the requirement for pavements and utility runs.

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 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CAMPIA TURZII ROMANIA	ERI: CONSTRUCT MUNITIONS STORAGE AREA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	422-264	/LRCT150008	3,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

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

(2) Basis:

(a) Standard or Definitive Design - YES

(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 123

(4) Construction Contract Award 17 AUG

(5) Construction Start 17 OCT

(6) Construction Completion 19 APR

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

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

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
CAMPIA TURZII ROMANIA	ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/LRCT150010	3,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				2,287
SQUADRON OPERATIONS FACILITY	SM	628	3,641	(2,287)
SUPPORTING FACILITIES				645
PAVEMENTS	LS			(231)
UTILITIES	LS			(223)
SITE IMPROVEMENTS	LS			(99)
PASSIVE FORCE PROTECTION MEASURES (2%)	LS			(46)
ENVIRONMENTAL MITIGATION (2%)	LS			(46)
SUBTOTAL				2,932
CONTINGENCY (5.0%)				147
TOTAL CONTRACT COST				3,078
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				200
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				117
TOTAL REQUEST				3,396
TOTAL REQUEST (ROUNDED)				3,400)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(388

10. Description of Proposed Construction: Construct a Squadron Operations Facility using conventional design and construction methods. Construction includes flight planning and pilot briefing rooms, administration area, life support maintenance area, ready room, support area, and secure storage area. In addition, the facility will include a fire protection and alarm system, and a supervisory control system for energy management. Supporting facilities include site development, utility connections, lighting, paving, parking, walks, storm drainage, landscaping, and signage. Low-impact development integrated management practices (LID-IMPs) are included. The facility is intended to be compatible with applicable Department of Defense (DoD), Air Force, NATO, and host-nation design standards. In addition, local materials and construction techniques shall be used where required and/or appropriate. Design and construction efforts will be executed in accordance with the host-nation agreements, including construction and environmental permits. The facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.

11. Requirement: 628 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY (ERI)

REQUIREMENT: The European Reassurance Initiative (ERI) in support of Operation Atlantic Resolve bolsters the security of our NATO allies and partners in Europe. Romania is a NATO member state and, as such, has a requirement to host deployed

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION CAMPIA TURZII ROMANIA	4. PROJECT TITLE ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/LRCT150010	3,400

U.S. forces. This facility will be capable of supporting both visiting and deployed U.S. Forces. The construction of a squadron operations facility at Campia Turzii Air Base, Romania will improve airfield and support infrastructure, a key enabler for training and combat operations. The Squadron Operations Facility will be programmed with the versatility to host deployed squadrons supporting weapons systems such as the F-15 Eagle and A-10 Warthog, accommodating up to twelve aircraft. The facility will also support the NATO Air Policing mission, the U.S. Theater Security Package, NATO and U.S. training events, US Fighter Training Deployments, and other Host Nation exercises. This Squadron Operations Facility will improve mission readiness and force protection, directly improving airfield operations for greater responsiveness during bilateral and multilateral exercises and training with allies and partners in addition to enabling a decisive response against any threats made by aggressive actors in the region.

CURRENT SITUATION: An adequate Squadron Operations Facility is not available at Campia Turzii AB. Current squadron operations are performed from loaned space within a K-Span that the host nation uses as an aircraft maintenance hangar and aircraft parts warehouse. There is additional space provided in temporarily placed tents typically used for contingency operations. These temporary accommodations are undersized, in poor condition, do not contain proper secure space for briefings and classified storage, and are not configured properly for the operational squadrons that are required to work, train, deploy, and fight as independent squadrons. Utility/technical requirements are not met by the currently utilized facilities including grounding/static rails for electrostatic discharge in the life support area, adequate power and wiring, non-secure telecommunications, central intercom, and video conferencing. Deployable aircraft maintainers and crew chiefs also utilize various spaces in and around the building because of its proximity to the main apron and the paved pad(s) used to store unit International Airlift-Helicopter Slingable-Container Units (ISU) and the modular Deployed Debriefing Facility (DDF).

IMPACT IF NOT PROVIDED: The lack of adequate space will force the visiting or deploying squadron to conduct multiple mission briefings increasing manhours and impeding both ground and flight safety. Insufficient life support areas will reduce the availability of life support equipment possibly reducing equipment life. These limitations will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability, readiness, and support to contingency operations.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual (AFMAN) 32-1084, Facility Requirements and the Air Combat Command Squadron Operations and Aircraft Maintenance Unit Design Guide. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs, new construction. Therefore, a complete economic analysis was not performed. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMeans were used to develop the estimate for this project. This project will be submitted for NATO pre-financing. Force protection measures are considered IAW USAF Installation Protection Guide. POC: +49-6371-476773, Aircraft Squadron Operations Facility: 628 SM = 6,762 SF. Support facilities exceed 25 percent of the primary facilities

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
CAMPIA TURZII ROMANIA	ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/LRCT150010	3,400

cost due to the requirement for pavements and utility runs.

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 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CAMPIA TURZII ROMANIA	ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	/LRCT150010	3,400

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 183

(4) Construction Contract Award 17 SEP

(5) Construction Start 17 NOV

(6) Construction Completion 19 JUN

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2019	46
FURNISHINGS	3400	2019	342

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
CAMPIA TURZII ROMANIA	ERI: CONSTRUCT TWO-BAY HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-111	/LRCT150009	6,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				5,037
AIRCRAFT MAINTENANCE HANGAR	SM	1,322	3,810	(5,037)
SUPPORTING FACILITIES				261
PASSIVE FORCE PROTECTION MEASURES (2%)	LS			(101)
ENVIRONMENTAL MITIGATION (2%)	LS			(101)
SITE IMPROVEMENTS	LS			(31)
PAVEMENTS	LS			(28)
SUBTOTAL				5,298
CONTINGENCY (5.0%)				265
TOTAL CONTRACT COST				5,563
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				362
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				212
TOTAL REQUEST				6,136
TOTAL REQUEST (ROUNDED)				6,100)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,600

10. Description of Proposed Construction: Construct a Tactical Fighter Aircraft (TFA) Maintenance Hangar using conventional design and construction methods. Construction includes an aircraft maintenance bay; space for administration, maintenance support, tool storage, break room, and latrines. The facility will include an oil/water separator, fall protection, fire protection and an alarm system, and a supervisory control system for energy management. Supporting facilities include site development, utility connections, lighting, walks, storm drainage, landscaping, and signage. Low-impact development integrated management practices (LID-IMPs) are included. The facility is intended to be compatible with applicable Department of Defense (DoD), Air Force, NATO and host-nation design standards. Local materials and construction techniques shall be used where required and/or appropriate. Design and construction efforts will be executed in accordance with the host-nation agreements, including construction and environmental permits. The facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-202-01, Host Nation Facilities in Support of Military Operations. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.

11. Requirement: 1322 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: ERI: CONSTRUCT TWO-BAY HANGAR (ERI)

REQUIREMENT: The European Reassurance Initiative (ERI) in support of Operation Atlantic Resolve approves actions that bolster the security of our NATO allies and partners in Europe. Romania is a NATO member state and, as such, has a requirement to host deployed U.S. forces. This facility will be capable of supporting both

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION, SITE AND LOCATION CAMPIA TURZII ROMANIA	4. PROJECT TITLE ERI: CONSTRUCT TWO-BAY HANGAR	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-111	/LRCT150009	6,100

visiting and deployed U.S. Forces. The construction of a two-bay hangar will improve airfield and support infrastructure. A TFA Maintenance Hangar programmed with the versatility to host deployed squadrons supporting weapons systems such as the F-15 Eagle and A-10 Warthog. This TFA Maintenance Hangar will bolster mission readiness, directly improving airfield operations for greater responsiveness during bilateral and multilateral exercises and training with allies and partners in addition to providing expeditious service to the aircrews who deliver a decisive response to tactical missions and contingency support operations.

CURRENT SITUATION: An adequate TFA Maintenance Hangar with the versatility to host squadrons supporting weapons systems such as the F-15 Eagle and A-10 Warthog is not available at Campia Turzii AB. All existing installation Aircraft Maintenance Hangars are fully utilized by the host nation or are functionally inadequate. Current aircraft maintenance is performed from loaned space within a K-Span the host nation uses as an aircraft maintenance hangar and aircraft parts warehouse. These temporary accommodations are undersized, in poor condition, and do not contain proper space for the maintenance, repair, deployment, and sustainment of assigned aircraft.

IMPACT IF NOT PROVIDED: If this project is not provided, the DoD will not have a TFA Maintenance Hangar with the versatility to host squadrons supporting weapons systems such as the F-15 Eagle and A-10 Warthog at Campia Turzii AB. This limitation will impede sortie generation and restrict flying schedules, directly limiting theater presence and impairing mission capability, readiness, and contingency support to operations.

ADDITIONAL: This project meets applicable criteria/scope specified in Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields, UFC 3-230-01, Water Storage, Distribution, and Transmission, UFC 3-260-01, Airfield and Heliport Design, UFC 1-202-01, Host Nation Facilities in Support of Military Operations, UFC 4-211-01, Aircraft Maintenance Hangars, Air Force Manual 32-1084 Facility Requirements, and Air Force Fighter Hangar/Aircraft Maintenance Unit Facility Design Guide. A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs, new construction. Therefore, a complete economic analysis was not performed. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMeans were used to develop the estimate for this project. This project will be submitted for NATO pre-financing. Force protection measures are considered IAW USAF Installation Protection Guide. POC: +49-6371-476773, Tactical Fighter Aircraft Maintenance Hangar: 1,322 SM = 14,235 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 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CAMPIA TURZII ROMANIA	ERI: CONSTRUCT TWO-BAY HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-111	/LRCT150009	6,100

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 403

(4) Construction Contract Award 17 AUG

(5) Construction Start 17 OCT

(6) Construction Completion 18 OCT

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

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

EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE FIXTURE EQUIPMENT	3400	2018	300
COMMUNICATIONS	3080	2018	900
AV EQUIPMENT	3400	2018	400

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
CAMPIA TURZII ROMANIA	ERI: EXTEND PARKING APRONS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	/LRCT150007	6,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				4,765
PARKING APRON (113-321)	SM	12,354	340	(4,203)
HANGAR ACCESS APRON (113-321)	SM	1,844	305	(562)
SUPPORTING FACILITIES				372
SITE IMPROVEMENTS	LS			(151)
UTILITIES	LS			(126)
ENVIRONMENTAL MITIGATION (2%)	LS			(95)
SUBTOTAL				5,137
CONTINGENCY (5.0%)				257
TOTAL CONTRACT COST				5,394
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				351
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				205
TOTAL REQUEST				5,950
TOTAL REQUEST (ROUNDED)				6,000

10. Description of Proposed Construction: Construct Tactical Fighter Aircraft (TFA) parking and access apron using conventional design and construction methods to accommodate weapon systems such as the F-15 Eagle and A-10 Warthog. The facility is intended to be compatible with applicable Department of Defense (DoD), Air Force, and NATO design standards. In addition, local materials and construction techniques shall be used where cost effective. Primary facilities include a Parking Apron and Hangar Access Apron. Construction includes 14,198 SM of apron pavement medium-load design portland cement concrete (PCC), asphalt shoulders, a separation layer, a drainage layer, a base course layer, a drainage system, edge lighting, pavement markings, and earthwork and grading. Supporting facilities include site development, utility connections, storm drainage, and landscaping. Low-impact development integrated management practices (LID-IMPs) are included. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 3-260-01, Airfield and Heliport Design and UFC 1-202-01, Host Nation Facilities in Support of Military Operations. This project will comply with DoD antiterrorism requirements per UFC 4-010-01.

11. Requirement: 14198 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: ERI: EXTEND PARKING APRONS (ERI)

REQUIREMENT: The European Reassurance Initiative (ERI) in support of Operation Atlantic Resolve bolsters the security of our NATO allies and partners in Europe. Romania is a NATO member state and, as such, has a requirement to host deployed US forces. This facility will be capable of supporting both visiting and deployed US Forces. The construction of a TFA parking apron at Campia Turzii Air Base, Romania will improve airfield and support infrastructure. The TFA Parking Apron will

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3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
CAMPIA TURZII ROMANIA	ERI: EXTEND PARKING APRONS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	/LRCT150007	6,000

accommodate 12 aircraft. The Apron will increase maintenance and aircrew accessibility and timeliness of sortie generation due to the proximity to the TFA Maintenance Hangar and Squadron Operations Facility. This project will directly improve airfield capability and readiness to support bilateral and multilateral exercises and training and enhance NATO ability to deliver a decisive response against any threats made by aggessive actors in the region.

CURRENT SITUATION: An adequate TFA Parking Apron capable of supporting required weapon systems is not currently available. Four aprons at Campia Turzii AB have been assessed for condition. The 2015 Airfield Pavement Evaluation indicates just one of the four aprons as satisfactory. A second is rated fair while the remaining two are very poor and serious. PCC thickness for three of the four, have a depth of 8-inches while the fourth is 20-inches. Requisites developed by the Pavement-Transportation Computer Assisted Structural Engineering (PCASE) system indicate a pavement thickness of 14-inches is necessary. Safety and condition concerns include shrinkage, cracking, and low, medium and high scaling. Potential severe foreign object damage (FOD) exists because of PCC degradation and the absence of paved shoulders.

IMPACT IF NOT PROVIDED: If this project is not provided, the airfield will have limited use as the condition of the existing aprons worsen, impeding the ERI effort to increase theater aircraft dispersal options and increase the level of fixed-wing fighter operations. The FOD and safety risks will increase exponentially. These limitations will impede sortie generation, and restrict flying schedules, directly limiting theater presence and impairing mission capability and readiness and contingency support.

ADDITIONAL: This project meets applicable criteria/scope specified in Bi-SC Directive 85-5 NATO Approved Criteria and Standards for Airfields, UFC 3-260-01, Airfield and Heliport Design, UFC 1-202-01, Host Nation Facilities in Support of Military Operations, and Air Force Manual 32-1084 Facility Requirements A preliminary analysis of reasonable options for satisfying this requirement indicates only one option will meet mission needs, new construction. Therefore, a complete economic analysis was not performed. The UFC 4-701-01, DoD Pricing Guide, PACES, and RSMeans were used to develop the estimate for this project. This project will be submitted for NATO pre-financing. Force protection measures are considered IAW USAF Installation Protection Guide. POC: +49-6371-476773, Tactical Fighter Aircraft Parking Apron: 14,198 SM = 16,981 SY

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 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CAMPIA TURZII ROMANIA	ERI: EXTEND PARKING APRONS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	/LRCT150007	6,000

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 381

(4) Construction Contract Award 17 AUG

(5) Construction Start 17 OCT

(6) Construction Completion 18 OCT

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

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