

## 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		FY 2017 MILI	ITARY CONSTRU	CTION	PROJECT DA	TA	2. DATE
AIR FORCE		(	(computer ger	erate	d)		
3. INSTALLATION	, SIT	E AND LOCATION		4. PF	ROJECT TITL	E	
UNSPECIFIED LOC	ATION			APR I	AND ACQUIS	ITION	
COMMONWEALTH OF	NORT	HERN MARIANA ISLAND	s				
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECI	NUMBER	8. PROJECT	COST (\$000)
27576		911-146	/ PA	F1603	00		9,000
		9.	COST ESTIM	TES			
						UNIT	COST
		ITEM		U/M	QUANTITY		(\$000)
PRIMARY FACILIT	IES						8,050
LAND ACQUISITI	ON			на	142	56,690	( 8,050)
SUPPORTING FACII	LITIES	5					0
SUBTOTAL							8,050
CONTINGENCY	(5	5.0%)					402
TOTAL CONTRACT (	COST					-	8,452
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				549
TOTAL REQUEST							9,002
TOTAL REQUEST (F	ROUNDE	D)					9,000
10. Descripti	on of	Proposed Constru	action: Ace	quire	s approxim	nately 142 h	ectares of
land (in fee o	r lor	ng-term lease) for	the const:	ructi	on of Air	Force milit	ary
training facil	ises.	and infrastructu and natural disa	aster respon	ort o nse.	Land parc	els are to i	be acquired
from the Commo	nweal	th of Northern Ma	ariana Isla	nds (	CNMI) thro	ough the Com	monwealth
Port Authority	•						
Air Conditioni	ng:	0 Tons					
11. Requiremen	t: 14	2 HA Adequate:	: 0 HA SI	ubsta	ndard: 0 H	IA	
PROJECT: Asia	-Paci	ific Resiliency (A	APR) Land A	cquis	ition (New	w Mission).	
REQUIREMENT:	The A	ir Force will acc	quire land o	eithe	r in fee o	or by long to	erm lease
for the constr	uctic	on of Air Force mi	llitary tra:	ining	facilitie	es and infra	structure
response in th	e CNM	II. The Air Force	e intends to	b aco	uire an ir	nterest in t	his land
for a minimum	of 25	years. The Air	Force is p	repar	ed to leas	se the prope	rty 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

1. COMPONENT		FY 2017 MILI	TARY CONSTRU	ICTION PROJECT DA	TA	2. DATE
AIR FORCE		(	computer ger	nerated)		
3. INSTALLATION	, SITI	E AND LOCATION		4. PROJECT TITL	E	
UNSPECIFIED LOC	ATION			APR LAND ACQUIS	ITION	
COMMONWEALTH OF	NORTI	HERN MARIANA ISLAND	S			
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/P	ROJECT NUMBER	8. PROJECT CO	OST (\$000)
27576		911-146	/ PA	F160300	9,	,000
of the project constructed. facilities are capability.	s tha Initi cons	at support the Div al Air Operations tructed, deprivin	vert and Ex s capabilit ng the Air	ercise Mission y cannot be acl Force of this n	within CNMI on nieved until f much-needed op	can be these perational
HISTORY OF BAS	E BOU	NDARY: N/A				
LONG TERM REAL a Record of De select a final Acquisition:	ESTA Cisic loca 142 F	ATE: Land acquist on is signed, est: ation for the exer Mectares = 350 Acc	ition costs imated to o rcise/diver res.	cannot be nego ccur in August t requirement.	otiated with 2016. This APR Land	CNMI until will

1. COMPONENT		FY 2017 MILITARY C	ONSTRUC	TION PROJECT	DATA	2. DATE
AIR FORCE	(computer generated)					
3. INSTALLATI	ON AND L	OCATION		4. PROJECT	FITLE	
UNSPECIFIED I	OCATION			APR LAND AC	QUISITION	
COMMONWEALTH	OF NORT	HERN MARIANA ISLANDS	3			
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PRO	JECT NUMBER	8. PROJECT CC	ST (\$000)
27576		911-146	/P	AF160300	9,0	000
12. SUPPLEMEN	TAT. DATZ	A:	,			
a. Estimate	d Design	n Data:				
(1) Statu	s:					
(a) Da	te Desig	gn Started			29	-JUN-15
(b) Pa	rametrio	c Cost Estimates use	ed to de	evelop costs		YES
* (c) Pe	ercent Co	omplete as of 01 JAN	1 2016			15%
* (d) Da	te 35% I	Designed			31	-MAR-16
(e) Da	te Desig	yn Complete			30	-SEP-16
(f) En	ergy Stu	udy/Life-Cycle analy	vsis was	s/will be per	formed	YES
				_		
(2) Basis	:					
(a) St	andard o	or Definitive Design	1 <b>-</b>			NO
(b) Wh	ere Desi	ign Was Most Recentl	y Used	-		
(3) Total	Cost (	(a) = (a) + (b) or (d	l) + (e)	):		(\$000)
(a) Pr	oduction	n of Plans and Speci	ficatio	ons		150
(b) Al	1 Other	Design Costs				50
(c) TC	tal					200
(d) Co	ntract					200
(e) In	-house		200			0
(4) Const	ruction	Contract Award				17 FEB
(5) Const	ruction	Start				17 MAR
(6) Const	ruction	Completion				18 DEC
* Indicat which i cost an	es compl s compan d execut	letion of Project De rable to traditional rability.	efinitio . 35% de	on with Param esign to ensu	etric Cost Es are valid scop	timate e,
b. Equipmen N/A	it associ	iated with this pro	ject pro	ovided from c	other appropri	ations:

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

	Authorization Request <u>(\$000s)</u>	Appropriation Request <u>(\$000s)</u>
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)

			AUTHORIZATION	APPROPRIATION
STATE/COUNTRY	INSTALLATION	PROJECT	REQUEST	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 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE
AIR FORCE	(computer generated)						
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	3	•
GRAF IGNATIEVO				ERI:	CONSTRUCT S	QUADRON	
				OPERA	TIONS/OPERA	TION ALERT	FACILITY
BULGARIA	TENTE	C (1)					
5. PROGRAM ELEM	ENI	6. CATEGORY CODE	7. RPSUID/	PROJEC	I NUMBER	8. PROJECI	COSI (\$000)
27576		141-753	/LI	BPG150	009		3,800
		9. C	OST ESTIMA	TES			
		TTEM		TT/M	OUANTTTY	UNIT	COST
		TIEM		07M	QUANIIII		(\$000)
PRIMARY FACILIT	IES						2,608
SQUADRON OPERA	TIONS	FACILITY		SM	827	3,154	( 2,608 )
SUPPORTING FACIN	LITIES						689
UTILITIES				LS			( 356)
PAVEMENTS				LS		ĺ	( 196)
ENVIRONMENTAL 1	MITIGA	TION (2%)		LS			(52)
PASSIVE FORCE	PROTEC	TION MEASURES (2%)		LS			(52)
SITE IMPROVEME	NTS			LS			(33)
SUBTOTAL							3,297
CONTINGENCY	(5.0%)	)					165
TOTAL CONTRACT (	COST						3,462
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				225
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF 5	SUBTOTAL)				132
TOTAL REQUEST							3,819
TOTAL REQUEST (I	ROUNDE	D)					3,800)
EQUIPMENT FROM (	OTHER .	APPROPRIATIONS (NON-	ADD)				( 388
10. Descripti	on of	Proposed Construct	ction: Co	nstru	ct a Squad	lron Operat	ions
includes fligh	t pla	nning, pilot brief	la constru Eing rooms	. adm	inistratio	on. life su	pport
maintenance, r	ready	room, support area	a, and sec	ure s	torage. 1	In addition	, the
facility will	inclu	de a fire protecti	ion and al	arm s	ystem, and	l a supervi	sory control
system for ene	ergy m	anagement. Electi	rical and	infra	structure	upgrades w	ill also be
included as ne	cessa	ry. Supporting fa	acilities	inclu	de site de	evelopment,	utility
signage. Low-	.impac	t development inte	egrated ma	nagem	ent practi	ces (LID-I	MPs) are
included. The	faci	lity is intended t	to be comp	atibl	e with app	olicable De	partment of
Defense (DoD),	Air	Force, NATO, and h	nost-natio	n des	ign standa	ards. In ad	dition,
local material	.s and	construction tech	nniques sh	all b	e used whe	ere require	d and/or
appropriate.	Desig	n and construction	n efforts ' . construc	will tion	be execute	d in accord	dance with rmits The
facility will	be de	signed as permaner	nt constru	ction	in accord	lance with :	DoD Unified
Facilities Cri	teria	(UFC) 1-202-01, H	Host Natio	n Fac	ilities in	a Support o	f Military
Operations. I	his p	roject will comply	y with DoD	anti	terrorism	requiremen	ts per UFC
4-010-01.			0.000	<b>.</b>			
11. Requiremen	nt: 82	7 SM Adequate:	USM S	ubsta	ndard: 0 S	SM	
PROJECT: ERI:	CONST	RUCT SQUADRON OPEN	RATIONS/OP	ERATI	ON ALERT E	ACILITY (E	RI)
Atlantic Regol	ve bo	uropean Reassurand	te initiat	ive ( Nato	ERI) IN SU allies and	pport of 0	peration in Europe
			-, -:		un	- pur chier b	
DD FORM 1391,	DEC 9	9 Previou	s editions	s are	obsolete.		Page No. 277

1. COMPONENT	FY 2017 MILITARY CONSTR	2. DATE	
AIR FORCE	(computer ge		
3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE	
GRAF IGNATIEVO		ERI: CONSTRUCT SQUADRON	
		OPERATIONS/OPERATION ALERT	ACILITY

#### BULGARIA

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. <u>ADDITIONAL</u>: 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

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	OCTION PROJECT DAT	ГА	2. DATE	
AIR FORCE	(computer generated)						
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE			
GRAF IGNATIEVO				ERI: CONSTRUCT SQUADRON			
				OPERATIONS/OPERA	TION ALERT FA	CILITY	
BULGARIA							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)	
27576		141-753	/L	BPG150009	3	,800	
to develop the pre-financing. Protection Gui 827 SM = 8,901 cost due to th	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.					for NATO ation acility: acilities	
JOINT USE CERT	IFICA	TION: This facilit	y can be	used by other c	omponents on	an "as	
available" bas	us; h	owever, the scope	of the pr	oject is based	on Air Force		
requirements.							

AIR FORCE	1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE					. DATE		
3 TNSTALLATI	NN AND T.	OCATION		4 <b>DROT</b>	דרי די	TT.F		
CDAR TONATTEN				FDT. CO	NGTDIC			
GRAF IGNATIEV	,			OPERATT	ONS/OPI	ERATION ALERT	ਸ	Α. ΤΤ. ΤΤΥ
BULGARIA								
5. PROGRAM ELI	EMENT	6. CATEGORY C	ODE 7. 3	PROJECT N	UMBER	8. PROJECT CO	OST	(\$000)
27576		141-753		/LBPG1500	09	3,	800	
12. SUPPLEMEN	TAL DATA	<b>\:</b>						
a. Estimated	d Design	Data:						
(1) Projec	t to be	accomplished b	y design	-build pr	ocedur	es		
(2) Basis:	:							
(a) St. (b) Wh	andard o ere Desi	or Definitive Do .gn Was Most Red	esign - cently Ua	sed -				NO
(3) All Ot	her Des	ign Costs						209
(4) Constr	uction	Contract Award					17	AUG
(5) Constr	ruction	Start					17	OCT
(6) Constr	ruction	Completion					19	JUN
(7) Energy	Study/	Life-Cycle anal	ysis was	/will be	perform	med		NO
EQUIPMENT	NOMENCI	ATURE	PROCURIN	G APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
COMMUNICA	TIONS EQ	QUIPMENT	30	80	2	019		46
FURNISHIN	GS		34	00	2	:019		342

NE FORCE          3. INFALLATION, SITE AND LOCATION       4. FROJECT TITLE         GRAF IGNATIENO       ERI: FIGHTER RAMP EXTENSION         BULGARIA       6. CATEGORY CODE       7. RPSUID/FROJECT NUMBER       8. FROJECT COST (\$000)         27576       113-321       /LSPGI5008       7,000         SCORT ESTIMATES         UM       U/M       QUANTITY       UNT       (\$000)         PARKING AFRON       5. COST ESTIMATES         UM       U/M       QUANTITY       UNT       (\$000)         PARKING AFRON       5. COST ESTIMATES       4.796         SUPPORTING FACILITIES       5. N       13,382       358       (4.796         SUPPORTING FACILITIES       5. N       13,382       358       (4.796         SUPPORTING FACILITIES       5. N       13,382       358       (4.796         DEVICIONARG CONT       5. N       13,382       358       (4.796         SUPPORTING FACILITIES       5. N       13,382       358       (4.796         DEVICIONARG CONT       5. N       142       267       (360          5. N       3	1. COMPONENT		FY 2017 MILIT.	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE	
3. INSTALLATION, SITE AND LOCATION       4. PROJECT TITLE         GRAF IGGATINO       RET. FIGHTER PARP EXTENSION         BULGARIA       7. REPOID/FROJECT NUMBER       8. PROJECT COST (\$000)         27576       113-321       /LEPGID50008       7,000         27576       113-321       /LEPGID50008       7,000         9. COST       STIMATES       0.0057       (\$200)         PARING AREON       SM       13,382       358       (4,796)         SUPPORTING FACILITIES       LS       (\$200)       (\$200)       (\$200)         PARING AREON       SM       13,382       358       (4,796)       (\$200)         SUPPORTING FACILITIES       LS       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)       (\$200)	AIR FORCE		(c	omputer gen	erate	d)			
GRAF IGNATIEVO       BUILGARIA       RII: FIGHTER RAMP EXTENSION         5. FROGRAM ELEMENT       6. CATEGORY CODE       7. REPUIL/FROJECT NUMEER       8. FROJECT COST (\$000)         27576       113-321       /LEPGISUOGE       7,000         9. COST ESTIMATES         UNIT       UNIT       COST         UNIT       UNIT       UNIT         UNIT       UNIT       COST         UNIT       UNIT       UNIT         UNIT       UNIT       COST         UNIT       UNIT       COST         UNIT       UNIT       UNIT         UNIT       UNIT <td c<="" td=""><td>3. INSTALLATION</td><td>, SITE</td><td>AND LOCATION</td><td></td><td>4. PF</td><td>OJECT TITLE</td><td>1</td><td>1</td></td>	<td>3. INSTALLATION</td> <td>, SITE</td> <td>AND LOCATION</td> <td></td> <td>4. PF</td> <td>OJECT TITLE</td> <td>1</td> <td>1</td>	3. INSTALLATION	, SITE	AND LOCATION		4. PF	OJECT TITLE	1	1
BULGARIA       S. FROGRAM ELEMENT       6. CATEGORY CODE       7. RFSUID/FROJECT NUMBER       8. FROJECT COST (\$000)         27576       113-321       /LBPOIS0008       7.000         9. COST ESTIMATES         UNIT       UNIT       COST         JTEM       UNIT       COST         STRATES         UNIT       UNIT       COST         STRATES         UNIT       UNIT       COST         STRATES       UNIT       UNIT         DESCONTING FACILITIES       STRATES       UNIT         STRATES       UNIT       UNIT         STRATES       STRATES         UNIT       UNIT       UNIT         STRATES       STRATES         UNIT       UNIT       UNIT         SUPENTING FACOLITIES       STRATES       STRATES         STRATES       STRATES       STRATES         UNIT       U	GRAF IGNATIEVO				ERI: FIGHTER RAMP EXTENSION				
5. PROGRAM ELEMENT       6. CATEGORY CODE       7. RFSUID/FROJECT NUMBER       8. FROJECT COST (\$000)         27576       113-321       /LBPOIS0008       7.000         9. COST ESTIMATES       UNIT       COST         ITEM       U/M QUANTITY       UNIT       (\$000)         PRIMARY FACILITIES       II.3.382       358       (4.796)         SUPPORTING FACILITIES       IS       (1.284)         SUPTORTING FACILITIES       IS       (1.284)         SUPRORTING FACILITIES       IS       (1.284)         SUPTOTAL       IS       (1.284)         CONTINGENCY       (5.0%)       IS       (1.284)         SUPTOTAL       IS       (1.284)       (.966)         DEMOLITION       SM       142       267       (.38)         SUPERVISION, INSPECTION AND OVERHEAD       (6.5%)       IS       4.12         DESIGN/FULL DESIGN COST       (4.0% OF SUBTOTAL)       242       7.000         10. DESCIFICION AND OVERHEAD       (6.5%)       IS       12.244         DESIGN/FULL DESIGN COST       (4.0% OF SUBTOTAL)       242       7.000         TOTAL REQUEST       TOTAL REQUEST       CONTINGENCY       1.0.0       1.0.0         DESIGN/FULL DESIGN ONT OVERHEAD	BULGARIA								
27576     113-321     /LBPGI50006     7,000       9. COST ESTIMATES       UN QUANTITY     UNIT       UNIT     COST       ITEM     UN     QUANTITY     UNIT       PARKING APEON     SM     13,382     355     (4,796       SUPPORTING FACILITIES     IS     1,248       SUPPORTING FACILITIES     IS     1,248       SUPORTING FACILITIES     IS     1,248       SUPCOMEMENTS     IS     1,248       UTILITIES     IS     1,248       SUPCORTING FACILITIES     IS     1,248       UTILITIES     IS     1,248       SUPCORTING FACILITIES     IS     1,248       UTILITIES     IS     1,248       SUPCORTING FACILITIES     IS     1,248       UTILITIES     IS     1,248       CONTINGINGING (5.0%)     IS     1,242       <td colspan="2</td> <td>5. PROGRAM ELEM</td> <td>ENT</td> <td>6. CATEGORY CODE</td> <td>7. RPSUID/</td> <td>PROJE</td> <td>CT NUMBER</td> <td>8. PROJECT</td> <td>COST (\$000)</td>	5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
9. COST ESTIMATES         ITEM       U/K       QUANTITY       UNIT       COST (\$000)         PRIMARY FACILITIES       4.796         SUPPORTING FACILITIES       13,382       358       (4.756)         SUPPORTING FACILITIES       15       (128)       (128)         UTILITIES       15       (966)       (128)         UTILITIES       15       (128)       (128)         UTILITIES       15       (128)       (128)         UTILITIES       15       (128)       (128)         UTILITIES       15       (128)       (128)         SUPENDIAL       (50)       (50)       (128)       (128)         CONTINGENCY       (5.0%)       (5.5%)       (5.6%)       (302)         SUPERVISION, INSPECTION AND OVERHEAD       (6.5%)       (412)       (5.441)         DESIGN/SULL - DESIGN COST       (4.0% OF SUPFOTAL)       (7000)       (7000)         TOTAL REQUEST       TOTAL REQUEST (ROUNDED)       7,000       (7000)       (7000)         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 acidities in a construction in accordance wapon systems such as separation la	27576		113-321	/LI	BPG150	008		7,000	
ITEMU/MQUANTITYUNITCOST (\$000)PRIMARY FACILITIES4,796PARKING APRONSX13,382358(4,796)SUPPORTING FACILITIESLS(966)SITE IMPROVEMENTSLS(128)DEMOLITIONLS(966)UTILITIESLS(128)ENVIRONMENTAL MITIGATION (2%)LS(36)DEMOLITIONSM142267GUESTOR/SULL CONTRACT COST(4.0% OF SUBTOTAL)302CONTINGENCY(5.0%)3027,000TOTAL CONTRACT COST(4.0% OF SUBTOTAL)242TOTAL REQUEST(ROUNDED)7,00010. Description of Proposed Construction:Construct a Tactical Fighter Aircraft(TFA) Parking Apron using conventional design and construction methods toaccommodate weapon systems such as the F-15 Eagle and A-10 Warthog. The facility isintended to be compatible with applicable bepartment 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-offective.Construction, includes 13,382 SM of apron pavement using medium-locad design portlandcement concrete (PCC), asphalt shoulders, a separation layer, a drainage layer, abase course layer, a drainage system, edge lighting, pavement marking, andearthwork and grading. Facilities will be designed as permanet construction inaccordance with the DOD Unified Facilities Criteria (UFC) 3-260-01, Airfield andHeliport Design, and UFC 1-202-01, Host Nation Facility will br			9. C	OST ESTIMA	TES		1		
ITEM       D/A       CUARTIFY       (\$000)         PRIMARY FACILITIES       SN       13,382       356       4,796         SUPPORTING FACILITIES       LS       1,248       1,248         SITE INFORMENTS       LS       (\$961)         DEMOLITION       SN       142       267       (\$38)         SUPTORING FACTLITIES       LS       (\$961)       302       6,044         DEMOLITION       SN       142       267       (\$18)       302         SUMETOTAL       LS       (\$120)       4,030       302       6,346         SUPEORTING N, INSPECTION AND OVERHEAD       (6.5%)       242       7,000       7,000         TOTAL REQUEST (ROUNDED)       TOTAL REQUEST (ROUNDED)       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000       7,000 <t< td=""><td></td><td></td><td></td><td></td><td> /</td><td></td><td>UNIT</td><td>COST</td></t<>					/		UNIT	COST	
PRIMARY FACILITIES       4,796         PARKING AFRON       SM       13,382       358       (4,796)         SUPFORTING FACILITIES       LS       (966)         STIE INFROVEMENTS       LS       (966)         UTHINITIES       LS       (966)         DEMOLITION       SN       142       267         SUPFORTING FACTURENTAL MITIGATION (2%)       LS       (961)         DEMOLITION       SN       142       267         SUBTOTAL       CONTINGENCY (5.0%)       302       302         TOTAL CONTRACT COST       (4.0% OF SUBTOTAL)       242         TOTAL REQUEST       7,000       7,000         TOTAL REQUEST (ROUNDED)       7,000       7,000         10. Description of Proposed Construction: Construct a Tactical Fighter Aircraft       7,000         (TOTAL REQUEST (ROUNDED)       7,000       7,000         10. Description of Proposed Construction: Construct a Tactical Fighter Aircraft       7,000         (TOTAL REQUEST (ROUNDED)       7,000       7,000         10. Description of Proposed Construction: Construct a Tactical Fighter Aircraft       7,000         (TOTAL REQUEST (CONTECION AND OVERHEAD (6.5%)       9       9         Dasard and construction techniques shall be used where cost-effective.       CONStruc			LIEM		U/M	QUANTITY		(\$000)	
PARKING APRONSM13,382358( 4,796 )SUPPORTING FACILITIES1,248SITE INPROVEMENTSL5UTILITIESL5UTILITIESL5ENVIRONMENTAL MITIGATION (2%)L5DEMOLITIONSNSUPTOTALSNCONTINGENCY (5.0%)TOTAL CONTRACT COSTSUPENTION, INSPECTION AND OVERHEAD (6.5%)DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)CONTINGENCY (5.0%)TOTAL CONTRACT (ROUNDED)10. DESCRIPTION OF Proposed Construction: Construct a Tactical Fighter Aircraft(TFA) Parking Apron using conventional design and construction methods toaccommodate weapon systems such as the F-15 Eagle and A-10 Warthog. The facility isintended to be compatible with applicable Department of Defense (DD), 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 portlandcenter concrete (PCC), asphalt shoulders, a separation layer, a drainage layer, abase course layer, a drainage system, edge lighting, pavement markings, andearthwork and grading. Facilities will be designed as permanent construction inaccodance with the DoD Unified Facilities Criteria (UFC) 3-260-01, Aifrield andHeliport Design, and UFC 1-202-01, Root Nation Facilities in Support of MilitaryOperations. This project will comply with DoD antiterrorism requirements per UFC4-010-01. Demolish 1 building at Graf Ignatievo Air Base, Bulgaria.11. Require	PRIMARY FACILIT	IES						4,796	
SUPPORTING FACILITIES          SITE IMPROVEMENTS       LS       1,248         SITE IMPROVEMENTS       LS       (986)         UTILITIES       LS       (128)         ENVIRONMENTAL MITIGATION (2%)       LS       (128)         DEMOLITION       SM       142       267         SUBTOTAL       SM       142       267         CONTINGENCY (5.0%)       302       6,346         SUPERVISION, INSPECTION AND OVERHEAD (6.5%)       242       7,000         DESIGN/BULD - DESIGN COST (4.0% OF SUBTOTAL)       7,000       7,000         TOTAL REQUEST       CONTAL REQUEST (KONDED)       7,000       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 (DD), 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 Unitied Facility SI DOS antiterrorism requirements per UFC 4-010-01. Demolish 1 building at Graf Ignatie	PARKING APRON				SM	13,382	358	( 4,796 )	
SITE INPROVEMENTS       LS       (986)         UTILITIES       LS       (128)         ENVIRONMENTAL MITIGATION (2%)       LS       (966)         DEMOLITION       SM       142       267       (38)         SUBTOTAL       SM       142       267       (36)         CONTINGENCY (5.0%)       302       6,344       302         TOTAL CONTRACT COST       (4.0% OF SUBTOTAL)       242       7,000         TOTAL REQUEST       TOTAL REQUEST (CONDED)       7,000       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 domply with DOD antiterrorism requirements prufce 4-010-01. Demolish 1 building at Graf Ignatievo Ai	SUPPORTING FACI	LITIES				İ		1,248	
UTILITIES       LS       (128)         ENVIRONMENTAL MITIGATION (2%)       LS       (96)         DEMOLITION       SM       142       267       (96)         SUBTOTAL       SM       142       267       (96)         CONTINGENCY (5.0%)       6,044       302       302         TOTAL CONTRACT COST       (4.0% OF SUBTOTAL)       242       7,000         DESIGN/BULD - DESIGN COST (4.0% OF SUBTOTAL)       7,000       7,000       7,000         TOTAL REQUEST       TOTAL REQUEST (ROUNDED)       7,000       7,000       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 coment concrete (PCC), asplalt 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	SITE IMPROVEME	NTS			LS			( 986 )	
ENVIRONMENTAL MITIGATION (2%) DEMOLITION SUBTOTAL CONTINGENCY (5.0%) TOTAL CONTRACT COST SUPERVISION, INSPECTION AND OVERHEAD (6.5%) DESIGN/SULD - DESIGN COST (4.0% OF SUBTOTAL) TOTAL REQUEST TOTAL REQUEST (ROUNDED) 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 <u>PROJECT:</u> ERI: FIGHTER RAMP EXTENSION (ERI) <u>REQUIREMENT:</u> 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	UTILITIES				LS			( 128)	
DEMOLITIONSM142267( 38 )SUBTOTALCONTINGENCY(5.0%)TOTAL CONTRACT COSTSUPERVISION, INSPECTION AND OVERHEAD(6.5%)DESIGN/BULD - DESIGN COST(4.0% OF SUBTOTAL)TOTAL REQUESTTOTAL REQUESTTOTAL REQUESTCONTINGENCY10. Description of Proposed Construction: Construct a Tactical Fighter Aircraft(TFA) Parking Apron using conventional design and construction methods toaccommodate weapon systems such as the F-15 Eagle and A-10 Warthog. The facility isintended 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 portlandcement concrete (PCC), asphalt shoulders, a separation layer, a drainage layer, abase course layer, a drainage system, edge lighting, pavement markings, andearthwork and grading. Facilities will be designed as permanent construction inaccordance with the DoD Unified Facilities Criteria (UFC) 3-260-01, Airfield andHeliport Design, and UFC 1-202-01, Host Nation Facilities in Support of MilitaryOperations. This project will comply with DoD antiterrorism requirements per UFC4-010-01. Demolish 1 building at Graf Ignatievo Air Base, Bulgaria.11. Requirement: 13382 SMAdequate: 0 SMPROJECTIERI Enopean Reassurance Initiative (ERI) bolsters the security ofour NATO allies and partners in Europe.Bulgaria is a NATO	ENVIRONMENTAL	MITIGA	TION (2%)		LS			(96)	
SUBTOTAL       6,044         CONTINGENCY (5.0%)       302         TOTAL CONTRACT COST       6.346         SUPENTISION, 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       7,000         (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 (DD), 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 <u>FROUTERNENT</u> : The European Reassurance Initiative (ERI) bolsters the security of our NATO allies and partners in Europe. Bulgaria is a NATO member state and, as sus	DEMOLITION				SM	142	267	(38)	
CONTINGENCY (5.0%)       302         TOTAL CONTRACT COST       6,346         SUPERGN/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 (NNTO) 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 <u>FROUTERNENT</u> ; 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	SUBTOTAL							6,044	
TOTAL CONTRACT COST SUPERVISION, INSPECTION AND OVERHEAD (6.5%) DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL) TOTAL REQUEST TOTAL REQUEST TOTAL REQUEST (ROUNDED) 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 (DD), 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 <u>PROJECT:</u> ERI: FIGHTER RAMP EXTENSION (ERI) <u>REQUIREMENT:</u> 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, 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	CONTINGENCY	(5.0%)	)					302	
SUPERVISION, INSPECTION AND OVERHEAD (6.5%) DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL) TOTAL REQUEST TOTAL REQUEST (ROUNDED) 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 <u>PROJECT:</u> ERI: FIGHTER RAMP EXTENSION (ERI) <u>REQUIREMENT:</u> 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	TOTAL CONTRACT (	COST						6,346	
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       (TTA) 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 inc	SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(6.5%)				412	
TOTAL REQUEST TOTAL REQUEST (ROUNDED) TOTAL REQUEST (ROUNDED) 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 <u>PROJECT:</u> ERI: FIGHTER RAMP EXTENSION (ERI) <u>REQUIREMENT:</u> 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	DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				242	
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 <u>PROJECT:</u> ERI: FIGHTER RAMP EXTENSION (ERI) <u>REQUIREMENT:</u> 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	TOTAL REQUEST							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 (DDD), 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 <u>PROJECT:</u> ERI: FIGHTER RAMP EXTENSION (ERI) <u>REQUIREMENT:</u> 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	TOTAL REQUEST (1	ROUNDE	D)					7,000	
11. Requirement: 13382 SM Adequate: 0 SM Substandard: 0 SM <u>PROJECT:</u> ERI: FIGHTER RAMP EXTENSION (ERI) <u>REQUIREMENT:</u> 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	10. Descripti (TFA) Parking accommodate we intended to be and the North local material Construction i cement concret base course la earthwork and accordance wit Heliport Desig Operations. T 4-010-01. Demo	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							
	11. Requirement: 13382 SM Adequate: 0 SM Substandard: 0 SM <u>PROJECT:</u> ERI: FIGHTER RAMP EXTENSION (ERI) <u>REQUIREMENT:</u> 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				curity of e and, as ll be odating up cessibility ntenance prove ort				

AIR FORCE	(computer gen	nerated)	
1. COMPONENT	FY 2017 MILITARY CONSTRU	JCTION PROJECT DATA	2. DATE

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

### BULGARIA

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.

<u>CURRENT SITUATION:</u> 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.

<u>IMPACT IF NOT PROVIDED:</u> 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.

. COMPONENT						
AIR FORCE		FY 2017 MILITARY C (compute	ONSTRUCI er gener	ION PROJECT	DATA	2. DATE
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SKAF IGNAIIEV	0		E	CI: FIGHIER	RAMP EXIENSION	N
BULGARIA					1	
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PROJ	ECT NUMBER	8. PROJECT CC	ST (\$000)
27576		113-321	/LB	PG150008	7,	000
12. SUPPLEMEN	ITAL DATA	A:				
a. Estimate	d Desigr	n Data:				
(1) Proje	ct to be	accomplished by de	sign-bu	ild procedur	es	
(2) Basis	:					
(a) St (b) Wh	andard onere Desi	or Definitive Design ign Was Most Recent	n - ly Used	-		NO
(3) All O	ther Des	ign Costs				384
(4) Const	ruction	Contract Award				17 AUG
(5) Const	ruction	Start				17 SEP
(6) Const	ruction	Completion				18 SEP
(7) Energ	y Study/	Life-Cycle analysis	was/wi	ll be perfor	med	NO

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DAT	TA	2. DATE		
AIR FORCE		(0	(computer generated)						
3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE						:	·		
AMARI AIR BASE				ERI:	CONSTRUCT B	ULK FUEL STO	RAGE		
ESTONIA		1							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
27576		411-135	/EI	EI150	006		6,500		
		9. 0	OST ESTIMA	TES		1			
						UNIT	COST		
		ITEM		U/M	QUANTITY		(\$000)		
PRIMARY FACILIT	IES						1,407		
BULK FUEL STORAGE W/PUMP HOUSE					1,000	1,407	( 1,407 )		
SUPPORTING FACILITIES							4,185		
LOOP PIPELINE SYSTEM					1,900	1,416	( 2,690)		
MANIFOLD/FILTE	R STAT	ION		SM	240	3,554	( 853)		
PAVING				LS			( 283 )		
STORAGE BLDG				SM	40	2,875	( 115)		
WATER, SEWER,	GAS UT	ILITIES		LS			(87)		
ELECTRIC SERVI	CE			LS			(70)		
DRAIN TANK				СМ	10	3,800	(38)		
ATFP				LS			( 31)		
SITE IMPROVEME	NTS			LS			( 18)		
SUBTOTAL							5,592		
CONTINGENCY	(5.0%	)					280		
TOTAL CONTRACT	COST						5,872		
SUPERVISION, IN	SPECTI	ON AND OVERHEAD	(6.5%)				382		
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF 8	SUBTOTAL)				224		
TOTAL REQUEST							6,477		
TOTAL REQUEST (1	ROUNDE	D)					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 <u>PROJECT:</u> ERI: Construct Bulk Fuel Storage (ERI)

1. COMPONENT	FY 2017 MILIT	ſA	2. DATE			
AIR FORCE	(computer generated)					
3. INSTALLATION, SITE AND LOCATION			4. PROJECT TITLE	1		
AMARI AIR BASE			ERI: CONSTRUCT BULK FUEL STORAGE			
ESTONIA						
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)	

/EEEI150006

6,500

<u>REQUIREMENT:</u> 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.

411-135

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.

<u>CURRENT SITUATION:</u> 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.

<u>ADDITIONAL:</u> 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

27576

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1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE					
AIR FORCE		(c	omputer gen	nerated)		
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE	:	
AMARI AIR BASE				ERI: CONSTRUCT B	ULK FUEL STORA	GE
ESTONIA						
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT CO	OST (\$000)
27576		411-135	/E	EEI150006	6	,500
27576 has been submi +49-6371-47677 exceed 25 perc pavements and <u>JOINT USE CERT</u> available" bas Force requirem partners when	tted. 3. Bu ent o utili TFICA sis; h hents. visit	411-135 This project will lk Fuel Storage: 1 f the primary fac: ty runs. <u>TION:</u> These facil: owever, the scope It is intended th ing or deployed to	/E l be submi l,000 M3 = ilities can of the pr nat these o Amari Ai	EEII150006 tted for NATO p 264,172 Gallon st due to the r be used by othe oject is based facilities be u r Base.	6 pre-financing s. Support for equirement for ars on an "as on the US and used by US and	,500 . POC: facilities or d NATO Air d NATO Air

1. COMPONENT		FY 2017 MILITARY C	ONSTR	JCTION PROJ	JECT DA	ATA	2	. DATE	
AIR FORCE		(comput	er gei	herated)					
3. INSTALLATI	ON AND L	OCATION		4. PROJECT	r titl	E			
AMARI AIR BAS	E			ERI: CONSI	IRUCT 1	BULK FUEL S	ror/	AGE	
ESTONIA			1						
5. PROGRAM EL	LEMENT	6. CATEGORY CODE	7. PI	ROJECT NUME	BER 8	. PROJECT CO	OST	(\$000)	
27576		411-135	/	EEEI150006		б,	500		
12. SUPPLEMEN	NTAL DATA	A:							
a. Estimate	ed Desigr	Data:							
(1) Proje	ct to be	accomplished by de	sign-	build proce	edures				
(2) Basis (a) St (b) Wi	<ul> <li>(2) Basis:</li> <li>(a) Standard or Definitive Design - NO</li> <li>(b) Where Design Was Most Recently Used -</li> </ul>								
(3) All O	ther Des	ign Costs	_					260	
(4) Const	ruction	Contract Award					17	MAR	
(5) Const	ruction	Start					17	MAY	
(6) Const	ruction	Completion					18	OCT	
(7) Energ	y Study/	Life-Cycle analysis	was/	will be per	rforme	d		NO	
b. Equipmer	nt associ	ated with this pro	ject p	rovided fr	om oth	er appropri	ati	ons:	
EQUIPMENT	I NOMENCI	PRO	URING	F APPRC AI O	FISCAL PPROPR R REQU	YEAR IATED ESTED		COST (\$000)	
INOCULAT	ION CART	5 (2)	340	0	201	.7		129	
FF&E			340	0	201	.7		40	
HYDRANT (	CARTS (2	)	308	0	201	.7		370	

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DAT	<b>FA</b>	2. DATE		
AIR FORCE		(computer generated)							
3. INSTALLATION, SITE AND LOCATION SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY				4. PROJECT TITLE ERI: F/A-22 LOW OBSERVABLE/COMPOSITE REPAIR FACILITY					
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)		
27576		211-159	3298,	/ VYHK1	.70004	1	.8,000		
		9. 0	COST ESTIMA	TES					
ITEM				U/M	QUANTITY	UNIT	COST (\$000)		
PRIMARY FACILIT	ES						12,453		
LOW OBSERVABLE	COMPO	SITE REPAIR FACILITY	r	SM	2,326	5,249	( 12,209 )		
SISTAINABILITY	SISTAINABILITY AND ENERGY MEASURES (2%)						( 244 )		
SUPPORTING FACI	LITIES						3,131		
UTILITIES				LS			( 791)		
SITE IMPROVEMEN	NTS			LS			( 1,037)		
PAVEMENTS				LS			( 409)		
COMMUNICATIONS				LS			( 109)		
DEMOLITION				SM	408	614	( 251)		
ENVIRONMENTAL 1	DAMAGE	STUDY		LS			( 15)		
ENVIRONMENTAL 1	NEW FA	CILITY		LS			( 436)		
ENVIRONMENTAL 1	NEW PA	VEMENT		LS			(82)		
SUBTOTAL						-	15,584		
CONTINGENCY	(5.0%	)					779		
TOTAL CONTRACT (	COST					-	16,363		
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				1,064		
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	SUBTOTAL)				623		
TOTAL REQUEST						-	18,050		
TOTAL REQUEST (H	ROUNDE	D)					18,000 )		
EQUIPMENT FROM (	THER	APPROPRIATIONS (NON-	ADD)				( 114		
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ict a new I	ow Observab	le (L/O)		
Composite Repa	ir Fa	cility at Spangdal	hlem Air B	ase (	AB), Germa	ny utilizin	a		
conventional d	lesign	and construction	methods t	o acc	ommodate t	he mission o	of the		
facility. Faci	litie	facility. Facilities will be designed and constructed as permanent construction in							

Composite Repair Facility at spangdaniem 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

DD FORM 1391, DEC 99

 1. COMPONENT
 FY 2017 MILITARY CONSTRUCTION PROJECT DATA
 2. DATE

 AIR FORCE
 (computer generated)
 2. DATE

 3. INSTALLATION, SITE AND LOCATION
 4. PROJECT TITLE

 SPANGDAHLEM AIR BASE
 ERI: F/A-22 LOW OBSERVABLE/COMPOSITE

 SPANGDAHLEM SITE # 1
 ERI: F/A-22 LOW OBSERVABLE/COMPOSITE

 GERMANY
 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.

<u>CURRENT SITUATION:</u> 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.

<u>IMPACT IF NOT PROVIDED</u>: 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.

1. COMPONENT AIR FORCE	F FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
3. INSTALLATIO	ON AND I	OCATION		4 PROTECT T	rT.E				
SPANGDAHLEM A SPANGDAHLEM S GERMANY	IR BASE ITE # 1			ERI: F/A-22 1 REPAIR FACIL	LOW OBSERVABLE	COMPOSITE/			
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PF	OJECT NUMBER	8. PROJECT C	DST (\$000)			
27576		211-159	329	8/VYHK170004	18	,000			
12. SUPPLEMEN	TAL DATA	A:							
a. Estimate	d Design	n Data:							
(1) Projec	t to be	accomplished by de	sign-l	build procedu	res				
(2) Basis: (a) St (b) Wh	: andard o ere Des:	or Definitive Desig ign Was Most Recent	n - ly Use	ed –		NO			
(3) All Ot	her Des	ign Costs				1,000			
(4) Constr	ruction	Contract Award				17 JAN			
(5) Constr	ruction	Start				17 APR			
(6) Constr	ruction	Completion				19 APR			
(7) Energy	g Study/	Life-Cycle analysis	was/	will be perfo	rmed	YES			
b. Equipmen	t associ	ated with this pro	ject p	rovided from	other appropri	ations:			
EQUIPMENT	NOMENCI	PROC	CURING	FISC APPRC APPR OR R	AL YEAR OPRIATED EQUESTED	COST (\$000)			
FURNISHIN	IGS		340	)	2018	114			

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE	
AIR FORCE		(computer generated)						
3. INSTALLATION	, SITE	E AND LOCATION		4. PH	ROJECT TITLE	:	l	
SPANGDAHLEM AIR	BASE			ERI: F/A-22 UPGRADE				
SPANGDAHLEM SIT	E # 1			INFRA	STRUCTURE/C	OMMUNICATION	S/UTILITIES	
GERMANY		1				1		
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27578		135-101	3298	/уүнк1	70002		580	
		9. (	OST ESTIMA			TINTT	COST	
		ITEM		U/M	QUANTITY	UNII	(\$000)	
PRIMARY FACILIT	IES						400	
OBSOLETE - COM LN OTH THAN TEL				LM	1,827	219	( 400	)
SUPPORTING FACE	LITIES						96	
SITE PREPARATI	ONS			LS			(94	)
SITE IMPROVEME	NTS			LS			(3	)
SUBTOTAL						-	407	
CONTINCENCY	(E 0%)	\						
TOTAL CONTRACT	(J.0%)	)				-		
AUDEDUITATON TW			(6 5%)				521	
DESTON / BUILD - 1	DEGICIT	COST (4 0% OF (	(80.0%)				34	
TOTAL REQUEST	DEDIGN	(4.0% OF )	JODIOIAL)			-	575	
TOTAL REQUEST (1	ROUNDE	ות					580	、
EQUITEMENT FROM	OTHER	APPROPRIATIONS (NON-	( ממא				( 20	,
10 Deggripti		E Proposed Constru	ation. Bo		diroct-bu	ried corpor		
communications	cabl	es with fiber opt:	ic cables	in 14	earth cov	vered magazi	nes (ECMs)	
designated to	house	F/A-22 ordnance a	as part of	the	ERI F/A-22	contingenc	y mission	
at Spangdahlem	n Air	Base (AB), Germany	y. Constru	ction	includes	abandoning	existing	
copper cables,	cutt	ing and patching o	of existin	g roa	d infrastr	ucture wher	e required,	
construction of	of con	crete-encased duct	t bank, in	stall	ation of s	single-mode	fiber optic	
installation w	necti	ons to the existing of the communication of the com	ions hand	on De boles	etection Sy	stems (IDS)	. Duct bank	
optic cable to	the	existing base-wide	e communic	ation	s system/a	larm system	. This	
project will o	omply	with Department	of Defense	(DoD	) antiterr	orism/force	protection	
requirements p	oer Un	ified Facilities (	Criteria (	UFC)	4-010-01.	Facilities	will be	
designed as pe	ermane	ent construction in	n accordan	ce wi	th the DoD	UFC 3-260-	01,	
Airfield and H	Ielipc	ort Design and UFC	1-202-01,	Host	NationaL	Facilities	in Support	
of Military Op	erati	ons.		<b>a</b>	andord. 10	07 TN		
II. Requirement	IC: IO	S27 LM Adequate		Subst		27 LM		
PROJECT: ERI:	F/A-	22 UPGRADE INFRAS	TRUCTURE/C	OMMUN	IICATIONS/U	JTILITIES		
REQUIREMENT:	Repla	the reliability and	copper com d segurity	munic	ations cab	les with fi	ber optic	
house F/A-22 c	ove u ordnan	ice to support the	European	Reass	urance Ini	tiative (ER	I) F/A-22	
contingency mi	ssion	at Spangdahlem A	B, Germany	. Th	is project	supports t	he European	
Reassurance In	itiat	ive by improving :	infrastruc	ture	to support	: 5th Genera	tion	
fighter rotati	onal.	operations at Span	ngdahlem A	B, Ge	ermany. Sp	angdahlem's	geographic	
location and a	vaila -	ble ramp space mal	ke it an i	deal	location a	is a 5th Gen	eration	
tighter rotati	onal	hub. Building 5th	Gen capab	ılity ⊧oc †	r at Spangd	lahlem suppo	rts future	
operations if	regui	red, in order to a	deter pote	res t ntial	adversari	y to genera. es by incre	asing the	
	u		poce					
DD FORM 1391,	DEC 9	y Previou	is edition:	s are	obsolete.		Page No. 20	<del>)</del> 1

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	JCTION PROJECT DAT	ГА	2. DAT	Е	
AIR FORCE		( c	omputer ger	r generated)				
3. INSTALLATION SPANGDAHLEM AIR SPANGDAHLEM SIT GERMANY	, SITE BASE E # 1	E AND LOCATION		4. PROJECT TITLE ERI: F/A-22 UPGR INFRASTRUCTURE/C	: ADE OMMUNICATIONS/	UTILITIE	IS	
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$00	0)	
27578		135-101	3298	/VYHK170002		580		
27578 presence of U. aircraft and a Spangdahlem AB increase milit <u>CURRENT SITUAT</u> construction y IDS for the EC Replacement ca stored within. <u>IMPACT IF NOT</u> aircraft requi required by th 5100-76 17 Apr <u>ADDITIONAL:</u> T Manual 32-1084 process of bei used to develo NATO pre-finan Wiring: 1,827 FOREIGN CURREN JOINT USE CERT available" bas requirements.	S. fo ssoci ary p <u>ION:</u> rear f Ms ar bles <u>PROVI</u> red f cing f c, Fac ng pe cing. LM = CY: <u>IFICA</u> is; h	135-101 proces in Europe the ated operations are part of the United presence in central The ECMs at Spans from 1959 through 1 are needed to rest <u>DED:</u> If not provi- for the ERI conting of the ERI conting Force Munitions H 12. project meets appli- center and the UFC 1 are estimate for this Base Civil Engin 5,994 LF. Demolities FCF Budget Rate Us <u>ATION:</u> This facility however, the scope	3298, rough addi re planned States go L Europe. gdahlem AB 1991. Exis ole due to core effec ided, the gency miss Facility S icable cri s. A comp 3-701-01, s project. heer: DSN ion: 0 SM sed: EURO- cy can be of the pr	/VYHK170002 tional rotation for a continge vernment commit affected by th ting copper cab corrosion and tive protection munitions requi ion will not be tandards Guide teria/scope spe lete economic a DoD Pricing Gui This project w 452-6040. Repla = 0 SF. DOLLAR .9409 used by other co oject is based	as. Twelve F ency mission ment to ERI is project r bles that ser breakdown ov a systems for red for the adequately 31 May 2004, cified in Ai analysis is i de and RS Me vill be submi ce MSA Secur components on on Air Force	A-22 at to ange in vice th er time ordnan F/A-22 stored and Do r Force n the ans wer tted fo ity an "as	e ce as D e r	
DD FORM 1391,	DEC 9	9 Previou	s edition	s are obsolete.	F	age No.	29:	

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1. COMPONENT AIR FORCE		FY 2017 MILITARY C (comput	ONSTRU er gei	JCTION PROJECT	DATA	2	. DATE
3. INSTALLATIO SPANGDAHLEM A SPANGDAHLEM S GERMANY	ON AND L IR BASE ITE # 1	OCATION		4. PROJECT TI ERI: F/A-22 U INFRASTRUCTUR S	TLE PGRADE E/COMMUNICATIO	ONS	/UTILITIE
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PH	ROJECT NUMBER	8. PROJECT CC	ST	(\$000)
27578		135-101	329	8/VYHK170002	5	80	
12. SUPPLEMEN	TAL DATA	A:					
a. Estimate	d Desigr	Data:					
(1) Projec	ct to be	accomplished by de	sign-	build procedur	es		
(2) Basis (a) St (b) Wh	andard o ere Desi	or Definitive Desig ign Was Most Recent	n - ly Use	ed -			NO
(3) All O	ther Des	ign Costs					30
(4) Constr	ruction	Contract Award				17	JAN
(5) Constr	ruction	Start				17	APR
(6) Construction Completion							OCT
(7) Energy	y Study/	Life-Cycle analysis	was/	will be perfor	rmed		NO
b. Equipmen	t associ	ated with this pro	ject p	provided from a	other appropri	ati	lons:
EQUIPMENT	NOMENCI	PROC	URING	FISC APPRC APPRC OR RI	AL YEAR OPRIATED EQUESTED		COST (\$000)
FIBER OPI	IC CABL	Ε	340	0 2	2017		20

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	JCTION	PROJECT DAT	ГА	2. DATE
AIR FORCE	(computer generated)						
3. INSTALLATION SPANGDAHLEM AIR SPANGDAHLEM SIT GERMANY	, SITE BASE E # 1	AND LOCATION		4. PF ERI: FOR F	ROJECT TITLE UPGRADE HAR 7/A-22	: DENED AIRCRAE	T SHELTERS
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27576		141-182	3298,	/VYHK1	70001		2,700
		9. C	OST ESTIM	ATES			
		ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILIT	TES						84
HARDENED AIRCR.	AFT SH	ELTER		SM	7	12,057	(84)
SUPPORTING FACI	LITIES						2,233
SHELL MODIFICA	TIONS			LS			( 123 )
HVAC AND EXHAU	ST SYS	TEM MODIFICATIONS		LS			( 1,711)
ELECTRICAL SYS	тем мо	DIFICATIONS		LS			( 399 )
SUBTOTAL						-	2.317
CONTINGENCY	(5.0%)	)					116
TOTAL CONTRACT	COST	·				-	2.433
SUPERVISION IN	SDRCTT	ON AND OVERHEAD	(6.5%)				158
DESIGN/BUILD - 1	DESIGN	$COST \qquad (4.0\% \text{ OF } s)$	(UBTOTAL)				93
TOTAL REQUEST						-	2,684
TOTAL REQUEST (1	ROUNDE	D)					2,700
10. Descripti	on of	Proposed Construct	tion: In	stall.	vertical	exhaust sys	tem
Shelter/Protect B3015, B3016, include the ad bays, mechanic penetrations, relocation of would be in co constructed as (DoD) Unified UFC 4-211-01 A in update, as protection req	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						
	- F/A	-22 Modify Aircraf	t Shelter	g (FD	т)	~~	
<u>REQUIREMENT:</u> 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							
adversaries by	v incr	easing the present	ce of U.S.	ford	es in Euro	pe through	additional
FORM 1391,	DEC 9	9 Previou	is edition	s are	ODSOIECE.		raye No. 294

FY 2017 MILITARY CONSTRUCTION PROJECT DATA

(computer generated)

3. INSTALLATION, SITE AND LOCATION SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY

4. PROJECT TITLE 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.

<u>CURRENT SITUATION:</u> 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.

<u>IMPACT IF NOT PROVIDED</u>: 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.

<u>ADDITIONAL:</u> 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

						1
1. COMPONENT		FY 2017 MILITARY CO	ONSTR	UCTION PROJECT	DATA	2. DATE
AIR FORCE		(compute	er gen	nerated)		
3. INSTALLATIO SPANGDAHLEM A SPANGDAHLEM S GERMANY	ON AND I IR BASE ITE # 1	OCATION		4. PROJECT TI ERI: UPGRADE I SHELTERS FOR I	TLE HARDENED AIRCI F/A-22	RAFT
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CO	OST (\$000)
27576		141-182	329	8/VYHK170001	2,	700
12. SUPPLEMEN a. Estimate (1) Projec	TAL DAT d Design t to be	A: n Data: a accomplished by de	sign-	build procedur	es	
(2) Basis: (a) St (b) Wh	: andard ( ere Des:	or Definitive Design ign Was Most Recent]	n - Ly Use	ed -		NO
(3) All Ot	cher Des	ign Costs				150
(4) Consti	ruction	Contract Award				17 AUG
(5) Consti	ruction	Start				17 OCT
(6) Consti	ruction	Completion				18 APR
(7) Energy	g Study/	Life-Cycle analysis	was/	will be perfor	med	NO

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DAT	ГА	2. DATE
AIR FORCE	(computer generated)						
3. INSTALLATION,	3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE						
SIAULIAI				ERI:	MUNITIONS S	TORAGE	
LITHUANIA						1	
5. PROGRAM ELEMEN	T	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT C	OST (\$000)
11113		145-921	/EX	SA150	022	3	8,000
		9. C	OST ESTIMA	TES			
				/		UNIT	COST
		ITEM		U/M	QUANTITY		(\$000)
PRIMARY FACILITIE	s						1,399
MUNITIONS STORAG	EAR	EA		SM	1,200	1,166	( 1,399 )
SUPPORTING FACILI	TIES						1,178
SITE IMPROVEMENT	S			LS			(855)
PAVEMENTS				SM	1,187	265	( 315)
UTILITIES				LS			(5)
GENERATOR				LS			(3)
SUBTOTAL						-	2,577
CONTINGENCY (5	5.0%)	)					129
TOTAL CONTRACT CO	ST					-	2,706
SUPERVISION, INSP	ECTI	ON AND OVERHEAD	(6.5%)				176
DESIGN/BUILD - DE	SIGN	COST (4.0% OF S	UBTOTAL)				103
TOTAL REQUEST						-	2,985
TOTAL REQUEST (RO	UNDE	D)					3,000)
EQUIPMENT FROM OT	HER	APPROPRIATIONS (NON-	ADD)				( 10
10. Description	n of	Proposed Construc	tion: Co	nstru	ct a cover	ed Munitions	Storage
Area (MSA) on an	n ex	isting former Sovi	let aircra	ft pa	rking pad	utilizing co	onventional
design and const	truc	tion methods to ac	commodate	the	mission of	the facilit	у.
Facilities will	be	designed in accord	lance with	the	Department	of Defense	(DoD)
Unified Facilit:	les	Criteria (UFC) 1-2	202-01, Ho: longtrugti	st Na	tion Facil	ities in Sup	port of
structure corri		, as applicable. (	al cheath	ing o	n three si	des to prote	at
occupants agains	st c	limate conditions.	and light	tng O	protectic	n system ove	r the
existing concret	te p	ad. Security enhan	cements i	nclud	e perimete	r fence and	access
gate sized to a	llow	for 12 meter (40	feet) long	a mun	itions loa	ders. In add	lition,
local materials	and	construction tech	nniques sha	all b	e used whe	re cost effe	ctive. The
facility must al	lso	be able to withsta	and wind lo	bads,	and winte	r weather co	onditions
as prescribed in	n ap	plicable codes and	l design g	uides	. Special	foundations	will be
included for sub	b-ar	ctic conditions. 1	This proje	ct wi	ll comply	with DoD	
antiterrorism/fo	orce	protection requir	rements per	r UFC	4-010-01.		
11. Requirement:	: 12	00 SM Adequate:	: 0 SM :	Subst	andard: 0	SM	
PROJECT: ERI: N	MUNI	TIONS STORAGE (ERI	[)				
	ho F	uropean Reaggurand	o Tnitiat	ivo (	FPT) in eu	nport of Ope	ration

<u>REQUIREMENT:</u> 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 FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE ERI: MUNITIONS STORAGE SIAULIAI LITHUANIA 5. PROGRAM ELEMENT CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 145-921 11113 /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.

<u>CURRENT SITUATION:</u> Siauliai AB, Lithuania currently serves to support the NATOwide 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.

DD FORM 1391, DEC 99

1. COMPONENT     FY 2017 MILITARY CONSTRUCTION PROJECT DATA       AIR FORCE     (computer generated)					2. DATE	
3. INSTALLATIO	ON AND L	OCATION		4. PROJECT TI	TLE	,
SIAULIAI				ERI: MUNITION	S STORAGE	
LITHUANIA			1			
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CC	OST (\$000)
11113		145-921	1	EYSA150022	3,	000
12. SUPPLEMEN	TAL DAT	A:				
a. Estimate	d Desigr	Data:				
(1) Projec	ct to be	accomplished by de	sign-1	build procedur	es	
(2) Basis (a) St (b) Wh	: andard o ere Desi	or Definitive Design ign Was Most Recent:	n - Ly Use	ed –		NO
(3) All O	ther Des	ign Costs				120
(4) Const	ruction	Contract Award				16 OCT
(5) Const	ruction	Start				16 NOV
(6) Const	ruction	Completion				17 OCT
(7) Energy	y Study/	Life-Cycle analysis	was/	will be perfor	rmed	NO
b. Equipmen	t associ	ated with this pro	ject p	rovided from (	other appropri	ations:
EQUIPMENT	NOMENCI	PROC	URING	FISC APPRC APPRC OR RI	AL YEAR DPRIATED EQUESTED	COST (\$000)
PERSONNEL	OFFICE	TRAILER	340	o :	2017	8
AIR COMPF	RESSOR ST	YSTEM	340	) :	2017	3

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE	
AIR FORCE		(c	omputer gen	erate	d)			
3. INSTALLATION, SITE AND LOCATION				4. PROJECT TITLE				
LASK AB				ERI:	CONSTRUCT S	QUADRON OPER	ATIONS	
POLAND				FACIL	1TY			
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27576		141-753	/EI	PLK150	006		4,100	
		9. C	OST ESTIMA	TES			-	
						UNIT	COST	
		ITEM		U/M	QUANTITY		(\$000)	
PRIMARY FACILIT:	IES						2,775	
SQUADRON OPERA	TIONS	FACILITY		SM	878	3,160	( 2,775 )	
SUPPORTING FACI	LITIES						773	
UTILITIES				LS			(299)	
PAVEMENTS				LS			(286)	
SITE IMPROVEME	NTS			LS			(78)	
PASSIVE FORCE	PROTEC	TION MEASURES		LS			(55)	
ENVIRONMENTAL	REMEDI	ATION		LS			(55)	
SUBTOTAL							3,548	
CONTINGENCY	(5.0%)	)					177	
TOTAL CONTRACT (	COST						3,725	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				242	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)			-	142	
TOTAL REQUEST							4,109	
TOTAL REQUEST (1	ROUNDE	D)					4,100 )	
EQUIPMENT FROM (	OTHER .	APPROPRIATIONS (NON-	ADD)				( 388	
10. Descripti	on of	Proposed Construct	ction: Co	nstru	ct a Squad	lron Operati	ons	
flight plannin	a, pi	lot briefing rooms	s, adminis	trati	on, life s	support main	tenance,	
ready room, su	upport	area, and secure	storage.	In ad	dition, th	ne facility	will	
include a fire	prot	ection and alarm s	system, an	das	upervisory	control sy	stem for	
energy managem	ent.	Supporting facilit	ies inclu	de si	te develor	ment, utili	ty	
connections, 1	.ighti	ng, paving, parkir	ng, walks,	stor	m drainage	e, landscapi	ng, and	
included. The	facil	ity is intended to	be compa	ageme tible	with appl	icable Depa	rtment of	
Defense (DoD),	Air	Force, NATO and ho	ost-nation	stan	dards. In	addition, 1	ocal	
materials and	const	ruction techniques	s shall be	used	where req	quired and/c	r	
appropriate. D	esign	and construction	efforts w	ill b	e executed	l in accorda	nce with	
the Host-Natio	n agr	eements, including	g construc	tion	and enviro	onmental per	mits. The	
Facility Will	be de	(UFC) 1-202-01 F	lt Constru Jost Natio	ction n Fac	ilities in	ance with D	OD Unified	
Operations; an	d UFC	3-600-01 Fire Pro	otection E	ngine	ering for	Facilities.	This	
project will o	omply	with DoD antiter	rorism req	uirem	ents per U	JFC 4-010-01	•	
11. Requirement	nt: 87	8 SM Adequate:	0 SM S	ubsta	ndard: 0 S	SM		
PROJECT: ERI:	CONS	TRUCT SQUADRON OPP	ERATIONS F	ACILI	TY			
REQUIREMENT:	The E	uropean Reassurand	e Initiat	ive (	ERI) in su	apport of Op	eration	
Atlantic Resol	ve bo	lsters the securit	y of our :	NATO	allies and	i partners i	n Europe.	
		and state and, as	s such, na	s a I	equirement		Proyed 05	
DD FORM 1391,	DEC 9	9 Previou	s editions	s are	obsolete.		Page No. 300	

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE AIR FORCE (computer generated) 3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE LASK AB ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY POLAND 5. PROGRAM ELEMENT 7. RPSUID/PROJECT NUMBER 8. PROJECT COST (\$000) 6. CATEGORY CODE 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.

<u>CURRENT SITUATION:</u> 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).

<u>IMPACT IF NOT PROVIDED</u>: 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	FY 2017	MILITARY CONSTRU	CTION PROJECT DATA	2. DATE
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3. INSTALLATION	, SITE AND LOCATION		4. PROJECT TITLE	
LASK AB ERI: CONSTRUCT SQUADRON OPERATIONS				IONS
			FACILITY	
POLAND				

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

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA						2	. DATE
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			FACILI	TY	I SQUADRON OPI	SRA.	TIONS
EMENT	6. CATEGORY CODE	7. PI	ROJECT	NUMBER	8. PROJECT CC	OST	(\$000)
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ct to be	accomplished by d	esign-1	build p	rocedur	es		
: andard oner:	or Definitive Desiging Was Most Recent	n - ly Use	ed -				NO
ther Des	ign Costs	_					222
ruction	Contract Award					17	AUG
ruction	Start					17	NOV
ruction	Completion					19	JUN
y Study/	Life-Cycle analysi	s was/	will be	e perfor	med		NO
nomenci	PRO	CURING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
ATIONS E	QUIPMENT	308	D	2	2019		46
IGS		340	D	2	2019		342
	ON AND L EMENT TAL DATA d Design ct to be candard of here Desi ther Desi the Desi	FY 2017 MILITARY ( (comput ON AND LOCATION EMENT 6. CATEGORY CODE 141-753 TAL DATA: ed Design Data: ct to be accomplished by du : candard or Definitive Design tere Design Was Most Recent ther Design Costs ruction Contract Award ruction Start ruction Start ruction Completion y Study/Life-Cycle analysi at associated with this pro PRO T NOMENCLATURE ATIONS EQUIPMENT NGS	FY 2017 MILITARY CONSTRUCT         (computer ger         ON AND LOCATION         EMENT       6. CATEGORY CODE       7. PF         141-753       //         TTAL DATA:       141-753       //         add Design Data:       //       //         ct to be accomplished by design-1       //         :       :       :         andard or Definitive Design -       -         here Design Was Most Recently Used       ther Design Costs         ruction Contract Award       -         ruction Completion       y         y Study/Life-Cycle analysis was/w       .         at associated with this project p       -         PROCURING       -         Y NOMENCLATURE       -         ATIONS EQUIPMENT       3080         NGS       3400	FY 2017 MILITARY CONSTRUCTION (computer generated         ON AND LOCATION       4. PRO ERI: C FACILI         EMENT       6. CATEGORY CODE 141-753       7. PROJECT /EPLK150         MILITAL DATA:	FY 2017 MILITARY CONSTRUCTION PROJECT (computer generated)         ON AND LOCATION       4. PROJECT TI ERI: CONSTRUC FACILITY         EMENT       6. CATEGORY CODE 141-753       7. PROJECT NUMBER /EPLK150006         TTAL DATA:       -         ad Design Data:       -         ct to be accomplished by design-build procedur:         ::       -         andard or Definitive Design - here Design Was Most Recently Used -         ther Design Costs         ruction Contract Award         ruction Start         ruction Completion         y Study/Life-Cycle analysis was/will be perfor         At associated with this project provided from of the associated with this project approx         PROCURING APPRC       APPRO OR RE         YIONS EQUIPMENT       3080       2         NGS       3400       2	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)         ON AND LOCATION       4. PROJECT TITLE ERI: CONSTRUCT SQUADRON OPD FACILITY         EMENT       6. CATEGORY CODE 141-753       7. PROJECT NUMBER /EPIK150006       8. PROJECT CO 4.         TTAL DATA:       141-753       /EPIK150006       4.         TTAL DATA:	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)       2         ON AND LOCATION       4. PROJECT TITLE ERI: CONSTRUCT SQUADRON OPERAT PACILITY       ERENT         6. CATEGORY CODE 141-753       7. PROJECT NUMBER /EDISTO006       8. PROJECT COST 4.100         TTAL DATA:       141-753       /EPLKI50006       8. PROJECT COST 4.100         TTAL DATA:       id Design Data:

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	TA	2. DATE	
AIR FORCE		(c	omputer gen	erate				
3. INSTALLATION, SITE AND LOCATION				4. PROJECT TITLE				
POWIDZ AIR BASE				ERI:	CONSTRUCT S	QUADRON OPER	RATIONS	
				FACII	ITY			
POLAND								
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)	
27576		141-753	/EI	PPW170	003		4,100	
				mpd			• • •	
		9. 0	OST ESTIMA	ATES		INITE	COST	
		ITEM		U/M	QUANTITY	UNII	(\$000)	
PRIMARY FACILIT	IES						2,653	
SQUADRON OPERA	TIONS	FACILITY (141-753)		SM	834	3,181	( 2,653 )	
SUPPORTING FACIL	LITIES						848	
PAVEMENTS				LS			( 462)	
UTILITIES				LS		İ	( 178)	
SITE IMPROVEME	NTS			LS		İ	( 102)	
PASSIVE FORCE	PROTEC	TION MEASURES (2%)		LS		İ	(53)	
ENVIRONMENTAL	MITIGA	TION (2%)		LS			(53)	
SUBTOTAL							3,501	
CONTINGENCY	(5.0%)	)					175	
TOTAL CONTRACT (	COST						3,676	
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				239	
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				140	
TOTAL REQUEST							4,055	
TOTAL REQUEST (1	ROUNDE	D)					4,100)	
EQUIPMENT FROM (	OTHER .	APPROPRIATIONS (NON-	ADD)				( 386	
10. Descripti	on of	Proposed Construc	ction: Co	nstru	ict a Squad	lron Operat	ions	
Facility using	conv	entional design an	nd constru	ction	methods.	Construct	ion includes	
flight plannin	ng and	pilot briefing ro	ooms, admi	nistr	ation area	a, life sup	port	
maintenance ar	rea, r	eady room, support	t area, an	d sec	ure storag	ge area. In	addition,	
the facility w	rill i	nclude a fire prot	tection an	d ala	rm system,	and a sup	ervisory	
development w	1 IOT +ili+	energy management.	. Support	ing r ving	narking	unclude si	te rm drainage	
landscaping, a	nd si	gnage. Low-impact	t developm	ent i	ntegrated	management	practices	
(LID-IMPs) are	incl	uded. The facility	, is inten	ded t	o be compa	tible with	- applicable	
Department of	Defen	se (DoD), Air Ford	ce, NATO,	and H	lost-Nation	n design st	andards. In	
addition, loca	l mat	erials and constru	uction tec	hniqu	es shall b	e used whe	re required	
and/or appropr	iate.	Design and constr	ruction ef	forts	will be e	executed in	accordance	
The facility w	natio	n agreements, inclue e designed as peri	nanent con	struc	tion and e	cordance w	ith DoD	
Unified Facili	ties	Criteria (UFC) 1-2	202-01, но	st Na	tion Facil	ities in S	upport of	
Military Opera	tions	; and UFC 3-600-01	1 Fire Pro	tecti	on Enginee	ering for F	acilities.	
This project w	vill c	omply with DoD ant	titerroris	m req	uirements	per UFC 4-	010-01.	
11. Requiremen	nt: 83	4 SM Adequate:	0 SM S	ubsta	ndard: 0 S	SM		
PROJECT: ERI:	CONS	TRUCT SQUADRON OPP	ERATIONS F	ACILI	TY (ERI)			
REQUIREMENT:	The E	uropean Reassurand	ce Initiat	ive (	ERI) in su	apport of O	peration	
Atlantic Resol	ve bo	lsters the securit	ty of our	NATO	allies and	l partners	in Europe.	
Poland is a NA	ATO me	mber state and, as	s such, ha	sar	equirement	to host d	eptoyed US	
DD FORM 1391,	DEC 9	9 Previou	s edition	s are	obsolete.		Page No. 201	
-							504	

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA		
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3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE	
POWIDZ AIR BASE		ERI: CONSTRUCT SQUADRON OPERAT	IONS
		FACILITY	
POLAND			

TODAND			
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.

<u>CURRENT SITUATION:</u> 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.

<u>IMPACT IF NOT PROVIDED:</u> 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.

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1. COMPONENT	FY 2017 MILITARY CONST	RUCTION PROJECT DATA	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

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

1. COMPONENT     FY 2017 MILITARY CONSTRUCTION PROJECT DATA     2. DATE       AIR FORCE     (computer generated)						. DATE	
3. INSTALLATION AND LOCATION 4. PROJECT TITLE							
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	141-753	1	EPPW17	0003	4,	100	
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d Design	n Data:						
ct to be	accomplished by de	sign-	build p	procedur	es		
: candard o here Des:	or Definitive Designing Mas Most Recent	n - ly Use	ed -				NO
ther Des	ign Costs						212
ruction	Contract Award					17	AUG
ruction	Start					17	OCT
ruction	Completion					19	JUN
y Study/	Life-Cycle analysis	was/	will b	e perfor	med		NO
NOMENC	PROC	URING	APPRC	FISCA APPRO OR RE	AL YEAR PRIATED QUESTED		COST (\$000)
ATIONS E	QUIPMENT	308	D	2	2019		44
NGS		340	D	2	2019		342
	ON AND I SE JEMENT VIAL DATA ad Design of to be candard of here Des there De	FY 2017 MILITARY C (comput ON AND LOCATION SE EMENT 6. CATEGORY CODE 141-753 VTAL DATA: ed Design Data: ct to be accomplished by des: candard or Definitive Design here Design Was Most Recent ther Design Costs ruction Contract Award ruction Start ruction Start ruction Completion y Study/Life-Cycle analysis at associated with this prop PROC T NOMENCLATURE ATIONS EQUIPMENT NGS	FY 2017 MILITARY CONSTRUCT         (computer ger         ON AND LOCATION         SE         EMENT       6. CATEGORY CODE       7. PF         141-753       //         VTAL DATA:       //         ad Design Data:       //         ct to be accomplished by design-1       //         :       candard or Definitive Design -         here Design Was Most Recently Use       ther Design Costs         ruction Contract Award       ruction Start         ruction Completion       y         y Study/Life-Cycle analysis was/not associated with this project p         PROCURING         T NOMENCLATURE         ATIONS EQUIPMENT       3080         NGS       3400	FY 2017 MILITARY CONSTRUCTION (computer generated)         ON AND LOCATION SE       4. PRO ERI: (C FACIL)         SE       141-753         JEMENT       6. CATEGORY CODE 141-753       7. PROJECT /EPPW170         VTAL DATA:       -         ad Design Data:       -         ct to be accomplished by design-build properties         andard or Definitive Design - here Design Was Most Recently Used - ther Design Costs         ruction Contract Award         ruction Start         ruction Completion         y Study/Life-Cycle analysis was/will be         at associated with this project provide         PROCURING APPRC         r NOMENCLATURE         ATIONS EQUIPMENT       3080         NGS       3400	FY 2017 MILITARY CONSTRUCTION PROJECT (computer generated)         ON AND LOCATION SE       4. PROJECT TI ERI: CONSTRUC FACILITY         .SE       141-753         .EMENT       6. CATEGORY CODE 141-753         .EMENT       7. PROJECT NUMBER /EPPW170003         .TAL DATA:	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)         ON AND LOCATION       4. PROJECT TITLE ERI: CONSTRUCT SQUADRON OPP FACILITY         SE       4. PROJECT NUMBER (CONSTRUCT SQUADRON OPP FACILITY         EMENT       6. CATEGORY CODE 141-753       7. PROJECT NUMBER (EPFW170003       8. PROJECT CO 4.         EMENT       6. CATEGORY CODE 141-753       7. PROJECT NUMBER (PFW170003       8. PROJECT CO 4.         EMENT       6. CATEGORY CODE 141-753       7. PROJECT NUMBER (PFW170003       8. PROJECT CO 4.         MITAL DATA:       6. CATEGORY CODE 141-753       8. PROJECT CO (PFW170003       4.         WTAL DATA:       5. PROJECT NUMBER (PFW170003       8. PROJECT CO 4.         andard or Definitive Design - here Design Was Most Recently Used - ther Design Costs       - - - - -         ruction Contract Award       - - - -       - - -         ruction Completion       y Study/Life-Cycle analysis was/will be performed         ut associated with this project provided from other appropri APPROPRIATED OR REQUESTED       - - - -         TOMENCLATURE       3080       2019         ANIONS EQUIPMENT       3080       2019	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)       2         ON AND LOCATION       4. PROJECT TITLE ERI: CONSTRUCT SQUADRON OPERAL FACILITY         SE       141-753         LEMENT       6. CATEGORY CODE 141-753         Approximation       7. PROJECT NUMBER /EPPW170003         VTAL DATA:       8. PROJECT COST         ed Design Data:       -         ct to be accomplished by design-build procedures :       -         candard or Definitive Design - here Design Costs       17         ruction Contract Award       17         ruction Completion       19         y Study/Life-Cycle analysis was/will be performed         at associated with this project provided from other appropriati         PROCURING APPRC       FISCAL YEAR APPROPRIATED OR REQUESTED         Y NOMENCLATURE       3080       2019         NGS       3400       2019

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA					2. DATE	
AIR FORCE		(computer generated)					
3. INSTALLATION	, SITE	E AND LOCATION		4. PI	ROJECT TITLE	5	
CAMPIA TURZII				ERI:	CONSTRUCT M	UNITIONS STO	RAGE AREA
ROMANIA							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27576		422-264	/L	RCT150	0008		3,000
		9. C	OST ESTIMA	TES			
		ITEM		U/M	OUANTITY	UNIT	COST
					20-20-2		(\$000)
PRIMARY FACILIT	IES						1,531
STORAGE IGLOO				SM	372	4,117	( 1,531 )
SUPPORTING FACIN	LITIES						1,052
PAVEMENTS				LS			( 448 )
UTILITIES				LS			( 371)
SITE IMPROVEME	NTS			LS			( 171 )
PASSIVE FORCE PROTECTION MEASURES (2%)				LS			( 31)
ENVIRONMENTAL 1	MITIGA	TION (2%)		LS			( 31)
SUBTOTAL						-	2,583
CONTINGENCY	(5.0%	)					129
TOTAL CONTRACT (	COST					-	2,713
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				176
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	SUBTOTAL)				103
TOTAL REQUEST						-	2,992
TOTAL REQUEST (ROUNDED)							3,000
10. Descripti	on of	Proposed Construc	ction: Co	nstru	lct a Munit	ions Storag	e Area
(MSA) using co	nvent	ional design and o	constructi	on me	thods to a	accommodate	tactical
fighter-relate	ed mur	itions associated	with oper	atior	al aircraf	t at Campia	Turzii,
Romania. Cons	truct	ion includes 24" e	earth-cove	red c	concrete ar	nd steel mag	azine(s)
with /-bar con	struc	fire alarm guatem	ne racilit	les v	vill includ	le a lighthi	ng r oporgu
management. Su	ipport	ing facilities in	lude site	deve	elopment. 1	tility conn	ections.
new access roa	id to	MSA, security fend	cing w/veh	icle	gate, ligh	nting, pavin	g, parking,
storm drainage	, ber	m, landscaping, and	nd signage	. Lo	w-impact d	levelopment	integrated
management pra	ctice	s (LID-IMPs) are :	included.	The	facility i	s intended	to be
compatible wit	h arr	licable Department	t of Defen	е <b>д</b> (Т	DOD) Air F	Torce NATO	and host

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)

<u>REQUIREMENT:</u> 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	FY 2017 MILITARY CONSTRUCTION PROJECT DATA				
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3. INSTALLATION	, SITE AND LOCATION	4. PROJECT TITLE			

3. INSTALLATION, SITE AND LOCATION CAMPIA TURZII

ERI: CONSTRUCT MUNITIONS STORAGE AREA

#### ROMANIA

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.

<u>CURRENT SITUATION:</u> 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.

<u>IMPACT IF NOT PROVIDED</u>: 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.

1. COMPONENT AIR FORCE	T FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DATE (computer generated)						
3. INSTALLATI	ON AND L	OCATION		4. PROJECT TI	TLE		
CANDIA TUDZII				EDI. CONCEDUC			
CAMPIA IURZII				ERI: CONSIRUC	I MUNITIONS SI	ORAGE AREA	
ROMANIA		Γ	1		Ι		
5. PROGRAM EL	EMENT	6. CATEGORY CODE	7. PI	ROJECT NUMBER	8. PROJECT CC	ST (\$000)	
27576		422-264	/	LRCT150008	3,	000	
12. SUPPLEMEN	TAL DAT	A:					
a. Estimate	d Design	n Data:					
(1) Proje	ct to be	accomplished by de	sign-	build procedur	es		
(2) Basis	:						
(a) St (b) Wh	andard onere Desi	or Definitive Design ign Was Most Recent:	n - Ly Use	ed -		YES	
(3) All O	ther Des	ign Costs	_			123	
(4) Const	ruction	Contract Award				17 AUG	
(5) Const	ruction	Start				17 OCT	
(6) Const	ruction	Completion				19 APR	
(7) Energ	y Study/	Life-Cycle analysis	was/	will be perfor	med	NO	
N/A							

1. COMPONENT		FY 2017 MILIT.	ARY CONSTRU	CTION	PROJECT DA	ТА	2. DATE
AIR FORCE	(computer gen			erate	d)		
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	5	
CAMPIA TURZII				ERI:	CONSTRUCT S	QUADRON OPER	ATIONS
				FACIL	ITY		
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27576		141-753	/LF	RCT150	010		3,400
		9. C	OST ESTIMA	TES			
		ттем		∏/м	OUANTITY	UNIT	COST
					2012(1111		(\$000)
PRIMARY FACILIT	IES						2,287
SQUADRON OPERATIONS FACILITY				SM	628	3,641	( 2,287 )
SUPPORTING FACIN	LITIES						645
PAVEMENTS				LS			(231)
UTILITIES				LS			(223)
SITE IMPROVEME	NTS			LS			(99)
PASSIVE FORCE	PROTEC	TION MEASURES (2%)		LS			(46)
ENVIRONMENTAL 1	MITIGA	TION (2%)		LS			(46)
SUBTOTAL							2,932
CONTINGENCY	(5.0%)	)					147
TOTAL CONTRACT (	COST						3,078
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				200
DESIGN/BUILD - 1	DESIGN	COST (4.0% OF S	UBTOTAL)				117
TOTAL REQUEST							3,396
TOTAL REQUEST (1	ROUNDE	D)					3,400)
EQUIPMENT FROM (	OTHER .	APPROPRIATIONS (NON-	ADD)				( 388
10. Descripti	on of	Proposed Construc	tion: Co	nstru	ict a Squad	lron Operat:	ions
Facility using	conv	entional design ar	nd constru	ction	methods.	Construct	tion
includes fligh	it pla	nning and pilot br	curport	oms,	administra	ation area,	life roo Tr
addition, the	facil	ity will include a	fire pro	tecti	on and ala	arm system.	and a
supervisory co	ntrol	system for energy	/ manageme:	nt.	Supporting	facilitie	s include
site developme	ent, u	tility connections	s, lightin	g, pa	ving, park	ing, walks	, storm
drainage, land	lscapi	ng, and signage.	Low-impac	t dev	elopment i	Integrated a	nanagement
practices (LID	-IMPs	) are included. 1	he facili	ty is	intended	to be compa	atible with
applicable Dep	artme	nt of Defense (Dol	)), Air Fo	rce,	NATO, and	host-nation	n design
where required	audi and/	or appropriate. I	esign and	cons	truction e	fforts will	l be
executed in ac	corda	nce with the host-	-nation ag	reeme	ents, inclu	ding const:	ruction and
environmental	permi	ts. The facility	will be d	esign	ed as perm	anent const	truction in
accordance wit	h DoD	Unified Facilitie	es Criteria	a (UF	C) 1-202-0	1, Host Na	tion
Facilities in	Suppo	ort of Military Ope	erations.	This	project w	vill comply	with DoD
antiterrorism	requi	Rements per UFC 4-	0 GM G	ubeta	ndard. 0 G	2M	
	02	TRUCT COULDRON OF			muaru: U b	211	
PROJECT: ERI:	CONS	UKUCT SQUADRON OPE	RATIONS F	ACILI	.II (ERL)	mont of o	oration
Atlantic Resol	ve bo	latopean keassurand	v of our	IVE ( NATO	allies and	port of 0	in Europe.
Romania is a N	IATO m	ember state and, a	is such, h	as a	requiremen	nt to host of	deployed
DD EODW 1301	0 DEG 0	0			obrolate		
FORM 1391,	DEC 9	Previou	s eastions	s are	opsolete.		rage No. 308C

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

3. INSTALLATION, SITE AND LOCATION CAMPIA TURZII

4. PROJECT TITLE ERI: CONSTRUCT SQUADRON OPERATIONS FACILITY

### ROMANIA

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	FY 2017 MILIT	TARY CONSTRU	JCTION PROJECT DAT	TA	2. DATE		
AIR FORCE	(c	computer gen	nerated)				
3. INSTALLATION,	SITE AND LOCATION		4. PROJECT TITLE	2			
CAMPIA TURZII			ERI: CONSTRUCT S	QUADRON OPERAI	TIONS		
			FACILITY				
ROMANIA							
5. PROGRAM ELEMEN	T 6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER		8. PROJECT COST (\$000)			
27576	141-753	/LRCT150010		3,400			
cost due to the	cost due to the requirement for pavements and utility runs.						
JOINT USE CERTIE	JOINT USE CERTIFICATION: This facility can be used by other components on an as						
available basis;	; however, the scope of	of the pro	ject is based o	n Air Force			
requirements.	requirements.						

1. COMPONENT AIR FORCE	COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA 2. DA						. DATE	
3. INSTALLATION AND LOCATION 4. PROJECT TITLE								
CAMPIA TURZII				ERI: CO	NSTRUC' Y	I SQUADRON OPI	ERA'	TIONS
E DECEDIM ET	EMENT		7		IMPED		207	(\$000)
5. PROGRAM EL	EMENT	6. CATEGORY CODE	/. P		UMBER	o. PROJECI CC	100	(\$000)
27576		141-753		LRCT1500	10	3,	400	
12. SUPPLEMEN	TAL DAT	A:						
a. Estimate	ed Design	1 Data:						
(1) Proje	ct to be	accomplished by d	esign-1	build pr	ocedur	es		
(2) Basis (a) St (b) Wi	: candard o here Des:	or Definitive Desig ign Was Most Recent	n - ly Use	ed -				NO
(3) All O	ther Des	ign Costs						183
(4) Const	ruction	Contract Award					17	SEP
(5) Const	ruction	Start					17	NOV
(6) Const	ruction	Completion					19	JUN
(7) Energ	y Study/	Life-Cycle analysi	s was/	will be	perfor	med		NO
b. Equipmer	nt associ	ated with this pro PRO LATURE	oject p CURING	orovided APPRC	from c FISCZ APPRO OR RE	other appropri AL YEAR PRIATED QUESTED	ati	.ons: COST (\$000)
COMMUNICA	ATIONS E	QUIPMENT	308	D	2	019		46
FURNISHI	NGS		340	D	2	019		342

1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA					2. DATE			
AIR FORCE		(c	omputer gen	d)					
3. INSTALLATION, SITE AND LOCATION				4. PROJECT TITLE					
CAMPIA TURZII			ERI: CONSTRUCT TWO-BAY HANGAR						
ROMANIA									
5. PROGRAM ELEME	INT	6. CATEGORY CODE	7. RPSUID/	PROJEC	CT NUMBER	8. PROJECT	COST (\$000)		
27576		211-111	/L1	RCT150	009	6,100			
		9. C	OST ESTIMA	TES					
					OTTANETEN	UNIT	COST		
		IIBM		07M	QUANTITY		(\$000)		
PRIMARY FACILITI	ES						5,037		
AIRCRAFT MAINTE	NANCE	HANGAR		SM	1,322	3,810	( 5,037 )		
SUPPORTING FACIL	ITIES						261		
PASSIVE FORCE P	ROTEC	TION MEASURES (2%)		LS			( 101)		
ENVIRONMENTAL M	ITIGA	<b>TION (2%)</b>		LS			( 101)		
SITE IMPROVEMEN	TS			LS			( 31)		
PAVEMENTS				LS			(28)		
SUBTOTAL							5,298		
CONTINGENCY	(5.0%)						265		
TOTAL CONTRACT C	OST						5,563		
SUPERVISION, INS	PECTI	ON AND OVERHEAD	(6.5%)				362		
DESIGN/BUILD - D	ESIGN	COST (4.0% OF S	UBTOTAL)				212		
TOTAL REQUEST							6,136		
TOTAL REQUEST (R	OUNDE	D)					6,100 )		
EQUIPMENT FROM O	THER A	APPROPRIATIONS (NON-	ADD)				( 1,600		
10. Descriptio	on of	Proposed Construc	ction: Co	nstru	ct a Tacti	ical Fighter	r Aircraft		
(TFA) Maintenar	nce H	angar using conver	ntional de	sign	and constr	ruction meth	nods.		
maintenance sur	oport	es an aircrait mai	ntenance .	bay;	space for	The facil	tion,		
include an oil	/wate	r separator, fall	protectio	n, fi	re protect	tion and an	alarm		
system, and a s	super	visory control sys	- stem for e	nergy	- managemer	nt. Support	ing		
facilities incl	lude	site development,	utility c	onnec	tions, lig	ghting, wall	cs, storm		
drainage, lands	scapi	ng, and signage.	Low-impac	t dev	elopment i	integrated r	management		
practices (LID-	-IMPs	) are included. 7	The facili	ty is	intended	to be compa	atible with		
standards. Loca	al ma	terials and constr	cuction te	chnia	ues shall	be used whe	ere required		
and/or appropri	iate.	Design and const	ruction e	ffort	s will be	executed in	n accordance		
with the host-r	natio	n agreements, incl	luding con	struc	tion and e	environmenta	al permits.		
The facility wi	ill b	e designed as perm	manent con	struc	tion in ac	cordance with	ith DoD		
Unified Facilit	ties	Criteria (UFC) 1-2	202-01, Ho	st Na	tion Facil	lities in Su	upport of		
per UFC 4-010-0	cions	. This project wi	LII COMPLY	with	DOD antit	cerrorism re	equirements		
11. Requirement	t: 13	22 SM Adequate:	: 0 SM	Subst	andard: 0	SM			
PROJECT: ERI:	CONS	TRUCT TWO-BAY HANG	GAR (ERI)						
REOUIREMENT: 7	The E	uropean Reassurand	e Initiat	ive (	ERI) in su	apport of Or	peration		
Atlantic Resolv	ve ap	proves actions that	at bolster	the	security of	of our NATO	allies and		
partners in Eur	rope.	Romania is a NAT	70 member	state	and, as s	such, has a	requirement		
to host deploye	ed U.	S. forces. This f	Eacility w	ill b	e capable	of support	ing both		
DD FORM 1391, D	DEC 9	9 Previou	s edition	s are	obsolete.		Page No. 308g		

1. COMPONENT	1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA						
AIR FORCE		(computer generated)					
3. INSTALLATION	, SITE	AND LOCATION		4. PROJECT TITLE			
CAMPIA TURZII				ERI: CONSTRUCT TWO-BAY HANGAR			
ROMANIA							
5. PROGRAM ELEM	LEMENT 6. CATEGORY CODE 7. RPSUID/PROJECT NUMBER 8. PROJECT CO				OST (\$000)		
27576		211-111	/L	RCT150009	9 6,100		
visiting and d improve airfie with the versa the F-15 Eagle readiness, dir bilateral and addition to pr response to ta CURRENT SITUAT	eploy d an tilit and rectly multi covidi ctica	ed U.S. Forces. d support infrastry y to host deployed A-10 Warthog. The improving airfiel lateral exercises ng expeditious ser l missions and con An adequate TFA M	The constr ructure. d squadron is TFA Mai ld operati and train rvice to t ntingency Maintenanc	uction of a two A TFA Maintenan as supporting we ntenance Hangar ons for greater ing with allies the aircrews who support operati the Hangar with t	-bay hangar fr ce Hangar pr apons system will bolste responsiven and partner deliver a d ons. he versatili	will ogrammed s such as r mission ess during s in ecisive ty to host	
<u>CURRENT SITUATION:</u> 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							
(Inngoing and fully utilized by the best notion on one functionally inclements							

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.

<u>IMPACT IF NOT PROVIDED:</u> 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.

<u>ADDITIONAL:</u> 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

1. COMPONENT AIR FORCE		FY 2017 MILITARY (comp	CONSTRU	JCTION PRO Nerated)	OJECT	DATA	2	. DATE	
3. INSTALLATI	ON AND L	OCATION		4. PROJE	CT TII	<b>TLE</b>			
CAMPIA TURZII				ERI: CONSTRUCT TWO-BAY HANGAR					
ROMANIA									
5. PROGRAM EL	EMENT	6. CATEGORY COD	E 7. PR	OJECT NU	MBER	8. PROJECT CO	OST	(\$000)	
27576		211-111	/1	LRCT15000	9	6,	100		
12. SUPPLEMEN	TAL DAT	<b>\:</b>							
a. Estimate	d Desigr	Data:							
(1) Proje	ct to be	accomplished by	design-1	ouild pro	cedure	es			
(2) Basis (a) St (b) Wh	: andard o ere Des:	or Definitive Des: ign Was Most Recen	ign - ntly Use	d-				NO	
(3) All O	ther Des	ign Costs						403	
(4) Const	ruction	Contract Award					17	AUG	
(5) Const	ruction	Start					17	OCT	
(6) Const	ruction	Completion					18	OCT	
(7) Energ	y Study/	Life-Cycle analys	is was/	will be p	erfor	ned		NO	
EQUIPMENI	NOMENCI	PR	OCURING	APPRC	FISCA APPRO OR RE	L YEAR PRIATED QUESTED		COST (\$000)	
FURNITURE	FIXTUR	E EQUIPMENT	340(	)	2	018		300	
COMMUNIC	TIONS		3080	)	2	018		900	
AV EQUIPN	IENT		3400	)	2	018		400	

1. COMPONENT		FY 2017 MILIT	ARY CONSTRU	CTION	PROJECT DA	ГА	2. DATE
AIR FORCE		(c	omputer ger	erate	d)		
3. INSTALLATION	, SITE	AND LOCATION		4. PF	ROJECT TITLE	:	
CAMPIA TURZII				ERI:	EXTEND PARK	ING APRONS	
ROMANIA							
5. PROGRAM ELEM	ENT	6. CATEGORY CODE	7. RPSUID/	PROJE	CT NUMBER	8. PROJECT	COST (\$000)
27576		113-321	/L]	RCT150	007		6,000
		9. C	OST ESTIM	TES			
		T (11)/				UNIT	COST
		LTEM		U/M	QUANTITY		(\$000)
PRIMARY FACILIT	IES						4,765
PARKING APRON	(113-3	21)		SM	12,354	340	( 4,203 )
HANGAR ACCESS	APRON	(113-321)		SM	1,844	305	( 562 )
SUPPORTING FACIL	LITIES						372
SITE IMPROVEME	NTS			LS			(151)
UTILITIES				LS			( 126 )
ENVIRONMENTAL	MITIGA	<b>TION (2%)</b>		LS			(95)
SUBTOTAL						-	5,137
CONTINGENCY	(5.0%)	)					257
TOTAL CONTRACT	COST					-	5,394
SUPERVISION, INS	SPECTI	ON AND OVERHEAD	(6.5%)				351
DESIGN/BUILD - I	DESIGN	COST (4.0% OF S	UBTOTAL)				205
TOTAL REQUEST		· · · · · ·	,			-	5,950
TOTAL REQUEST (1	ROUNDE	ם)					6.000
10 Deggrinti	on of	Proposed Construe	ation. Co	natru	at Toatian	J Fightor A	ingraft
(TFA) parking	and a	ccess apron using	conventio	nal d	esign and	constructio	n methods
to accommodate	weap	on systems such as	the F-15	Eagl	e and A-10	Warthog.	The
facility is in	- itende	d to be compatible	e with app	licab	le Departm	ent of Defe	nse (DoD),
Air Force, and	I NATO	design standards.	. In addi	tion,	local mat	erials and	
construction t	echni	ques shall be used	l where co	st ef	fective.	Primary fac	ilities
include a Park	ing A	pron and Hangar Ac	ccess Apro	n. C	onstructio	on includes	14,198 SM
of apron pavem	ent m	edium-load design	portland	cemen	t concrete	e (PCC), asp	halt
shoulders, a s	epara	tion layer, a drai	inage laye	r, a	base cours	se layer, a	drainage
system, edge 1	ighti	ng, pavement marki	ings, and	earth	work and g	rading. Sup	porting
facilities inc	Lude	site development,	utility c	onnec	tions, sto	orm drainage	, and
are included	Low-	litics will be dee	igned as	ea ma norma	nagement p	rugtion in	ID-IMPS)
with the DoD H	racı Inifie	d Facilities Crite	ria (IFC)	3-26	0-01. Airf	ield and He	liport
Design and UFC	1-20	2-01, Host Nation	Facilitie	s in	Support of	Military O	perations.
This project w	vill c	omply with DoD ant	iterroris	m req	uirements	per UFC 4-0	10-01.
11. Requirement	t: 14	198 SM Adequate	e: 0 SM	Subs	tandard: 0	SM	
PROJECT: ERI:	EXTE	ND PARKING APRONS	(ERI)				
REQUIREMENT:	The E	uropean Reassurand	ce Initiat	ive (	ERI) in su	pport of Op	eration
Atlantic Resol	ve bo	lsters the securit	y of our	NATO	allies and	l partners i	n Europe.
Romania is a NATO member state and, as such, has a requirement to host deployed US							

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

1. COMPONENT FY 2017 MILITARY CONSTRUCTION PROJECT DATA					2. DATE		
AIR FORCE		(computer generated)					
3. INSTALLATION	3. INSTALLATION, SITE AND LOCATION 4. PROJECT TITLE						
CAMPIA TURZII				ERI: EXTEND PARKING APRONS			
ROMANIA							
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. RPSUI			7. RPSUID/	PROJECT NUMBER	8. PROJECT C	OST (\$000)	
27576		113-321	/LRCT150007 6,000				
		<b>.</b>					

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.

<u>CURRENT SITUATION:</u> 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.

<u>IMPACT IF NOT PROVIDED</u>: 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

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(4) Const	ruction	Contract Award				17 AUG
(5) Const	ruction	Start				17 OCT
(6) Const	ruction	Completion				18 OCT
(7) Energ	y Study/	Life-Cycle analysis	was/will	be perfor	med	NO