Washington Headquarters Service Military Construction, Defense-Wide FY 2008 Budget Estimates (\$ in Thousands)

State/Agency/Installation/Project	Authorization Request	Approp. <u>Request</u>	New/ Current <u>Mission</u>	Page <u>No.</u>
Virginia Pentagon Reservation Pentagon Reservation Electrical Upgrades	18,531	18,531	С	221
Total	18,531	18,531		

1. COMPONENT									2. DATE	
Washington Headquarte Services	rs FY	FY 2008 MILITARY CONSTRUCTION PROGRAM						0.00	oruary 2007	
3. INSTALLATION AND LOCATION 4. COMMAND							5. AREA C COST IN	ONSTRUCTION DEX		
Pentagon Reservation, Arlin	gton, Virginia			Washing	gton Head	quarters S	ervices		1.02	
6. PERSONNEL	(1)	PERMANE	NT	(2	2) STUDENT	s	(3)	SUPPORT	ED	(4) TOTAL
6. PERSONNEE	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF										N/A
b. END FY							-, ·			N/A
7. INVENTORY DATA (\$000)		 								N/A
a. TOTAL ACREAGE										N/A N/A
b. INVENTORY TOTAL AS O)F									N/A
c. AUTHORIZATION NOT YE	T IN INVENTORY				14 // 44					
d. AUTHORIZATION REQUE	STED IN THIS PRO	GRAM								18,531
e. AUTHORIZATION INCLUE	ED IN FOLLOWING	PROGRAM								N/A
f. PLANNED IN NEXT THRE	E PROGRAM YEARS	3		-						N/A
g. REMAINING DEFICIENCY	,									N/A
h. GRAND TOTAL										18,531
8. PROJECTS REQUESTED	IN THIS PROGRA	M	**					 !		
	a. CATGEG	ORY				ь. с	OST			
(1) CODE	(2) PROJECT	TITLE	T	(3) SCOPE	Ē.		000)	DESIGN	START	STATUS COMPLETE
	Pentagon Res Electrical Up					18,5	000	10	/07	4/09
	y .								X 02	Anticipated 9 Months for Design
10. MISSION OR MAJOR FUNCTIONS Primary facility is a new electrical substation housed in a partially underground reinforced concrete enclosure, a 69kVA utility supply feeder, 13kV switch gear, and electrical service to the Pentagon. Supporting work includes demolition of an existing retaining wall and paved surface; remediation of excavated soil; site utilities; replacement of existing paving, walks, curbs, and gutters disturbed by construction; and site improvements above and adjacent to the enclosure structure (required to blend with existing infrastructure). Anti-terrorism/force protection measures shall be incorporated in accordance with criteria prescribed in the current UFC regulations. Facility shall be designed in accordance with the National Electrical Code, National Fire Protection Association Life Safety Code, Standards of Seismic Safety for Federally Owned Buildings, and the Uniform Federal Accessibility Standards (for site improvements).										
11. OUTSTANDING POLLO	ION AND SAFET	1 DEFICIE	INCIES							
A Ale Dellestee				(\$000)					
A. Air Pollution B. Water Pollution					0					
C. Occupational Saf	ety and Health				0					

COMPONENT Washington Headquarters Services	FY 2008 MILITARY CONSTRUCTION PROJECT DATA		2. DATE Februa	ry 2007	REPORT CONTROL SYMBOL DD-A&T(A)1610
3. INSTALLATION AND LOCAT	4. PROJECT TITLE				
Pentagon Reservation, Arlington, Virginia		Pentagon Reservation Electrical Upgrades			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER 8. PROJECT COS 2008-1 18,53			
9. COST ESTIMATES	-				

9. COST ESTIMATES				
ITEM	∪/М	QUANTITY	UNIT COST (\$000)	COST (\$000)
PRIMARY FACILITY Single Transformer Substation 69kV Utility Supply Feeder Enclosure Structure 13kV Switchgear	LS LS SF LS	1 1 6,375 1	4,134 4,993 195 1,416	(4,993) (1,244)
SUPPORTING FACILITIES Demolition Soil Remediation Site Utilities Paving, Walks, Curbs, and Gutters Site Improvements	LS LS LS LS	1 1 1 1 1	45 35 45 65 256	(25) (35)
ESTIMATED CONTRACT COST ESCALATION SUBTOTAL 1 DESIGN/BUILD FEE SUBTOTAL 2 SUPERVISION, INSPECTION & OVERHEAD SUBTOTAL 3 CONTINGENCY SUBTOTAL 4 TERF (Tax Effect Recovery Factor) TOTAL REQUEST TOTAL REQUEST (ROUNDED)				12,163

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Primary facility is a new electrical substation housed in a partially underground reinforced concrete enclosure, a 69kVA utility supply feeder, 13kV switch gear, and electrical service to the Pentagon. Supporting work includes demolition of an existing retaining wall and paved surface; remediation of excavated soil; site utilities; replacement of existing paving, walks, curbs, and gutters disturbed by construction; and site improvements above and adjacent to the enclosure structure (required to blend with existing infrastructure). Anti-terrorism/force protection measures shall be incorporated in accordance with criteria prescribed in the current UFC regulations. Facility shall be designed in accordance with the National Electrical Code, National Fire Protection Association Life Safety Code, Standards of Seismic Safety for Federally Owned Buildings, and the Uniform Federal Accessibility Standards (for site improvements).

			2. DATE	REPORT CONTROL				
1. COMPONENT	FY 2008 MILITARY CO	2.5412	SYMBOL					
Washington Headquarters Services	PROJECT DATA (C	February 2007	DD-A&T(A)1610					
3. INSTALLATION AND LOCATION	DN	4. PROJECT TITLE						
Pentagon Reservation, Arlington	, Virginia	Pentagon Reservation Elec	trical Upgrades					
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJEC	CT COST (\$000)				
		2008-1		18,531				
11. REQUIREMENT: 6375 SF ADEQUATE: SUBSTANDARD: 6375 SF								
PROJECT: This project will provide enhanced reliability to the electrical system supplying the Pentagon Reservation.								
REQUIREMENT: The details of this project are classified, reference "Defense Facilities Division Electrical Upgrade" dated March 31, 2005 and related "Balanced Survivability Assessment", copies of which can be provided to appropriate officials upon request. Detailed requirements are contained within these studies which examined all aspects of the Pentagon reservation's electrical systems and recommended a strategic plan to enhance them. This project is the first phase of that strategic plan, though it is completely independent of any future phases. However, the two subsequent phases are necessary to fully achieve the results recommended in the above documents.								
CURRENT SITUATION: The ex	tisting electrical system does not provid	le the level of reliability recon	nmended in the abo	ve studies.				
"Defense Facilities Division Elec	IMPACT IF NOT PROVIDED: To understand the impact of not providing this facility, the reviewer should refer to the classified studies, "Defense Facilities Division Electrical Upgrade" dated March 31, 2005 and related "Base Survivability Assessment Study". Without constructing this facility, the Pentagon Reservation will be unable to achieve the level of enhanced reliability recommended in the studies.							
ADDITIONAL INFORMATION: All cost items on Page 1 (to include escalation, design/build fee, SIOH, and contingency) other than "supporting facilities" are extracted from the study's parametric cost estimate. The TERF line item refers to "Tax Effect Recovery Factor" and is intended to reimburse a utility for taxes incurred on income generated by their portion of construction. This is a mandatory cost, since a utility firm must complete a portion of this project. TERF is further explained in the study and is regulated by the Federal Energy Regulatory Commission (FERC).								

1. COMP		FY 2008 MILITARY CO	2. DATE	REPORT CONTROL SYMBOL						
Wash	ington Headquarters Services	PROJECT DATA (Co		February 2007	DD-A&T(A)1610					
3. INSTA	ALLATION AND LOCATION		4. PROJECT TITLE	37 2002-3004000 5 - 5000 00F 339 W						
Pentago	on Reservation, Arlington, V	√irginia	Pentagon Reservation Electrical Upgrades							
5. PROG	RAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJEC	CT COST (\$000)					
	1 PM 32-20		2008-1		18,531					
a. ESTI	MATED DESIGN DATA:									
(1)	001.07									
		EAS OF JANUARY 2007 TED TO BE 35% COMPLETE			0% ar-08					
(-/		TED TO BE 35% COMPLETE			ug-08					
· · ·		TO DEVELOP COSTS (ESTIMATE			YES					
		NTRACT			BUILD					
(g)		AND LIFE CYCLE COST ANALYSIS			ESIG					
(0)	DAOIO.				*					
(2)	BASIS: STANDARD OR DEFIN	HTIVE DECIGN		YES NO _	v					
		MOST RECENTLY USED		TES NO _	^_ N/A					
(3)	3) TOTAL DESIGN COST (c)=(a)+(b) or (d)+(e) (\$000)									
(a)		ANS AND SPECIFICATIONS			.75M					
		COSTS		_	.5M					
					1.25M					
(d) (e)					NO					
(~)		JCTION OF PLANS AND SPECS			050M					
(4)		NTRACT AWARD DATE			ау-08					
		ART (Design/Build starting at 35%)			ay-08					
(5)	CONSTRUCTION CON				pr-09					
(6)				•	φr-00					
	JIPMENT ASSOCIATED HER APPROPRIATIONS	WITH THIS PROJECT WHICH WI	ILL BE PROVIDED FROM							
Ŭ.,	IER ALL HOLLIANION	,	FISCAL YEAR							
,	EQUIPMENT	PROCURING	APPROPRIATION	C	OST					
<u>NO</u>	MENCLATURE	<u>APPROPRIATION</u>	The state of the s							
	N/A	N/A	N/A		0					
			TOTAL		0					
12. Su	pplemental Data:									
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ĺ										

1. COMPONENT	, ,	FY 2008 MILITARY CONSTRUCTION PROJECT DATA (Continuation)		SYMBOL		
Washington Headquarter Services	rs PRO			DD-A&T(A)1610		
3. INSTALLATION AND LOCA	ATION	4. PROJECT TITLE				
Pentagon Reservation, Arlington, Virginia		Pentagon Reservation Electrical Upgrades				
5. PROGRAM ELEMENT 6. CATEGORY CODE		7. PROJECT NUMBER	8. PROJECT COST (\$000)			
		2008-1		,531		

SPACE CRITERIA

Total

Pentagon Reservation Electrical Upgrade Area Requirements AUTHORIZED REQUIRED

Pentagon Reservation Electrical Upgrade

6,375 SF 6,375 SF

a. Enclosure Structure

6,375 SF 6,375 SF

1. COMPONENT	FY 2008 M	FY 2008 MILITARY CONSTRUCTION PROJECT DATA (Continuation)		REPORT CONTROL SYMBOL		
Washington Headquarters Services	PROJEC			DD-A&T(A)1610		
3. INSTALLATION AND LOCATION		4. PROJECT TITLE				
Pentagon Reservation, Arlington, Virginia		Pentagon Reservation Electrical Upgrades				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER 8. PROJECT COST (\$000)				
l .		2008-1		18,531		

DETAILED REQUIREMENTS STATEMENTS

<u>GENERAL</u>: This facility is required to provide enhanced redundancy and reliability in accordance with the classified "Defense Facilities Division Electrical Upgrade", dated March 21, 2005, and the "Balanced Survivability Assessment".

<u>DATA ON ACCOMMODATIONS NOW IN USE</u>: Current electrical systems do not allow the level of reliability recommended in the studies referenced above.

ANALYSIS OF DEFICIENCY: Deficiency is fully defined in the studies referenced above.

ANALYSIS OF ALTERNATE FACILITIES AND LOCATIONS: The Pentagon Master plan recommended three sites on the Pentagon Reservation. The site chosen was the most cost effective and appropriate one given future plans for the reservation.

ANALYSIS OF CRITERIA FOR NEW CONSTRUCTION: The size and capacity of the project is as recommended in the studies referenced above, as well as within the constraints of the proposed site.

STATEMENT OF PROGRAM RELATED EQUIPMENT: None

<u>DISPOSITION OF PRESENT ACCOMMODATIONS</u>: This is new construction. However, an existing retaining wall will be demolished and replaced, and an existing paved area demolished and replaced.

SURVIVAL MEASURES: None.

<u>CONTRIBUTION TO MISSION</u>: The benefits of this project to the Pentagon and its mission are as outlined in the studies referenced above.

<u>CLEAN AIR ACT AMENDMENT OF 1990</u>: Permitting and other procedural requirements mandated by state, interstate, and local air pollution control agencies have been complied with for this project.

PROTECTION OF WETLANDS: Project has been evaluated for compliance with Executive Order No. 11990 and is not sited in wetland.

REQUEST FOR "EXCEPTION TO CRITERIA": None

<u>TELECOMMUNICATIONS</u>: Telephone service is available on the Pentagon Reservation and is within 1000 feet of the proposed site. PFPA has a separate secure communication line and fiber network within the Pentagon Reservation. The facility will not require connection to the PFPA source.

ECONOMIC ANALYSIS: An economic analysis has been conducted. The economic analysis is a part of the classified study, "Defense Facilities Division Electrical Upgrade" dated March 31, 2005.

4 COMPONENT			2. DATE	REPORT CONTROL		
1. COMPONENT	STRUCTION	Acces (1220)	SYMBOL			
Washington Headquarters Services	PROJECT DATA (Con	itinuation)	February 2007	DD-A&T(A)1610		
3. INSTALLATION AND LOCATION		4. PROJECT TITLE				
Pentagon Reservation, Arlington, Vir	ginia	Pentagon Reservation				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER 8. PROJECT COST (\$000) 2008-1 18,531				
applicable regulations. POLLUTION ABATEMENT: The pollution control IAW Executive of the project has been reviewed, and the executive of the project has been reviewed, and the executive of the project has been reviewed, and the executive of the project in the project of the project of the project has been reviewed, and the project in the project of the project in the project has been reviewed, and the project in the project i	ordance with the provisions of Section 1 it is determined to be in compliance with Proposed project is in consonance with Section 601 of Public La stection. Fallout shelters have been excavailable to fulfill a station's requirement erations; or (3) Economic limitations necessive evaluated for flood hazards in complete the station of t	where appropriate, the property of the National In the State's Coastal Zoroth Section 7 of the Endandard Section 7 of the Endand Section 8 of the Section 7 of the Endand Section 8 of the Section 7 of the Endand Section 8 of the Section	Environmental Police Plan. Ingered Species Active design of this period only for the followersonnel during a personnel during the facility. Ince with Public Lavor description of the facility of the fa	for air and water licy Act of 1969, the It (P.L. 93-205(87) project has been ring reason: (1) period of fallout ant by some other the facility is not sited If 90-480, provisions undertaking will not pric Places. It project is in y Plan. It Practices to control		