

**National Security Agency  
Military Construction, Defense-Wide  
FY 2011 Budget Estimates  
(\$ in thousands)**

<u>State/Installation/Project</u>	<u>Authorization Request</u>	<u>Approp. Request</u>	<u>New/ Current Mission</u>	<u>Page No.</u>
<b>Georgia</b>				
Augusta/Fort Gordon NSA/CSS Georgia Training Facility	12,855	12,855	N	105
<b>Maryland</b>				
Fort Meade North Campus Utility Plant	219,360	219,360	C	108
<b>Utah</b>				
Camp Williams CNCI Data Center Increment 2	-	398,358	C	101
<b>Qatar</b>				
Al Udeid Air Base Qatar Warehouse	1,961	1,961	C	95
<b>United Kingdom</b>				
Menwith Hill Station MHS PSC Construction, Generators 10 and 11	2,000	2,000	C	98
<b>Total</b>	<b>236,176</b>	<b>634,534</b>		

1. COMPONENT NSA/CSS DEFENSE		FY 2011 MILITARY CONSTRUCTION PROGRAM					2. DATE  February 2010			
3. INSTALLATION AND LOCATION  AL UDEID AIR BASE, QATAR			4. COMMAND  NSA/CSS			5. AREA CONSTRUCTION COST INDEX				
6. PERSONNEL STRENGTH		PERMANENT		STUDENTS			SUPPORTED		TOTAL	
Army Installation		OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV
a. AS OF					x					
b. END FY					CLASS	IFIED				
7. INVENTORY DATA (\$000)										
A. TOTAL ACREAGE										
B. INVENTORY TOTAL AS OF										
C. AUTHORIZED NOT YET IN INVENTORY										0
D. AUTHORIZATION REQUESTED IN THIS PROGRAM										0
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0
F. PLANNED IN NEXT THREE YEARS										1,961
G. REMAINING DEFICIENCY										0
H. GRAND TOTAL										1,961
8. PROJECTS REQUESTED IN THIS PROGRAM:										
CATEGORY	PROJECT		PROJECT TITLE		COST	DESIGN				
CODE	NUMBER				(\$000)	START				COMPLETE
442-758	ALDA 07-0198		Qatar Warehouse (FY11)		\$1,961	Sept 2009				Nov 2010
9. FUTURE PROJECTS:										
a. INCLUDED IN FOLLOWING PROGRAM										
CATEGORY			PROJECT TITLE							COST
CODE										(\$000)
b. PLANNED IN NEXT THREE YEARS										
CATEGORY			PROJECT TITLE							COST
CODE										(\$000)
10. MISSION OR MAJOR FUNCTION										
Agency activities are classified.										
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:										
A. AIR POLLUTION										0
B. WATER POLLUTION										0
C. OCCUPATIONAL SAFETY AND HEALTH										0

<b>1. Component</b> NSA/CSS DEFENSE	<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. Date</b> February 2010
<b>3. Installation and Location</b> AL UDEID AIR BASE, QATAR			<b>4. Project Title</b> QATAR WAREHOUSE	
<b>5. Program Element</b>	<b>6. Category Code</b> 442-758	<b>7. Project Number</b> ALDA 07-0198	<b>8. Project Cost (\$000)</b> \$1,961	
<b>9. COST ESTIMATES</b>				
Item				
U/M				
Quantity				
Unit Cost				
Cost (\$000)				
<b>Primary Facility</b>				
Climated Controlled Warehouse				
Secondary Electrical Distribution & Switchgear				
<b>Supporting Facilities</b>				
Electrical Service				
Sewer Service				
Water Service				
Communications Service				
Gravel Hardstand				
Excavation , Fill and Grading				
<b>Sub Total</b>				
Contingency				
SIOH (6.5%)				
<b>TOTAL FUNDED COST</b>				
<b>10. DESCRIPTION OF PROPOSED WORK:</b> Construct a climate - controlled warehouse facility with closed ends, roll-up doors, HVAC, fire suppression, insulation, power, lighting, and plumbing. Provide 1650 SM hardstand area for vehicle entrances, parking and staging of equipment and shipping containers.				
<b>11. REQUIREMENT:</b> 696 SM <b>ADEQUATE:</b> 0 <b>SUBSTANDARD:</b> 696 SM				
<b>PROJECT:</b> Construct Logistics Warehouse (current mission)				
<b>REQUIREMENT:</b> Provide a climate-controlled warehouse facility for storage and maintenance activities, as well as tactically deployed containerized offices. This facility houses logistical operations in support of community personnel deployed to the regional AOR. Services provided include: ground transportation; personnel tracking; travel reservations; receiving, storage, issuance, sanitization, and distribution of protective clothing, equipment and tactical gear; and other support functions as required.				
<b>CURRENT SITUATION:</b> The subject, Forward Logistics Operation Site (FLOS), was stood up in April 2005 and is strategically located to support the regional AOR. The FLOS is a vital link in the process chain that annually services thousands of community personnel on TDY and deployment assignments. The operations are currently housed in a temporary "clamshell" structure of tubular steel frame with a canvas covering. Vertical storage shelving assemblies have been erected and containerized offices with auxiliary HVAC units have been placed within the facility. The interior floor is bare earth and there is HVAC equipment for maintaining acceptable levels of interior temperature and humidity. High winds and accompanying sand abrasion and infiltration, combined with extreme temperatures, have caused significant deterioration of the canvas covering. The current interior environment is not conducive to the efficient execution of the sites primary functions.				

<b>1. Component</b> NSA/CSS DEFENSE	<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. Date</b> February 2010
<b>3. Installation and Location</b> AL UDEID AIR BASE, QATAR			<b>4. Project Title</b> QATAR WAREHOUSE
<b>5. Program Element</b>	<b>6. Category Code</b> 442-758	<b>7. Project Number</b> ALDA 07-0198	<b>8. Project Cost (\$000)</b> \$1,961

**IMPACT IF NOT FUNDED:** Without the requested funding, the FLOS will continue to provide the required logistical services under substandard conditions while the facility condition continues to deteriorate. Maintaining status quo facilities posture may also serve to hamper community-based trends toward collaboration and consolidation of assets and footprints.

**ADDITIONAL:** This project meets the criteria/scope specified in the Air Force Handbook 32-1084, Facility Requirements, and has been coordinated with base facilities master plan for environmental AT/FP compliance.

**JOINT USE CERTIFICATION:** This facility can be used by other components on as "as available" basis; however, the scope of the project is based on Air Force requirements.

**12. SUPPLEMENTAL DATA:**

(a) Status

- |                                |                  |
|--------------------------------|------------------|
| (i) Date Design Started        | Sep 2009         |
| (ii) Percent Complete Jan 2010 | 15%              |
| (iii) Type of Design Contract: | Design-Bid-Build |

(b) Basis

- |  |     |
|--|-----|
| (i) Standard or Definitive Design:       | No  |
| (ii) Date Design was Most Recently Used: | N/A |

(c) Contract Award

Oct 2010

(d) Construction Start

Nov 2010

(e) Construction Complete

Mar 2012

<b>1. COMPONENT NSA/CSS DEFENSE</b>	<b>FY 2011 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE</b>  February 2010					
<b>3. INSTALLATION AND LOCATION</b>  RAF MENWITH HILL, UNITED KINGDOM	<b>4. COMMAND</b>  NSA/CSS						<b>5. AREA CONSTRUCTION COST INDEX</b>  1.35					
<b>6. PERSONNEL STRENGTH</b>		PERMANENT			STUDENTS			SUPPORTED			TOTAL	
Army Installation		OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV		
a. AS OF					x							
b. END FY					CLASS	IFIED						
<b>7. INVENTORY DATA (\$000)</b>												
A. TOTAL ACREAGE												
B. INVENTORY TOTAL AS OF												
C. AUTHORIZED NOT YET IN INVENTORY											36,688	
D. AUTHORIZATION REQUESTED IN THIS PROGRAM											2,000	
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM											67,472	
F. PLANNED IN NEXT THREE YEARS											38,561	
G. REMAINING DEFICIENCY											0	
H. GRAND TOTAL											142,727	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM:</b>												
<u>CATEGORY</u> <u>CODE</u>	<u>PROJECT</u> <u>NUMBER</u>	<u>PROJECT TITLE</u>					<u>COST</u> <u>(\$000)</u>	<u>DESIGN</u> <u>START</u>	<u>COMPLETE</u>			
811-145	MWHL103001	PSC Construction (FY11)					2,000					
<b>9. FUTURE PROJECTS:</b>												
a. INCLUDED IN FOLLOWING PROGRAM												
<u>CATEGORY</u> <u>CODE</u>	<u>PROJECT TITLE</u>						<u>COST</u> <u>(\$000)</u>					
	MHS Generator Plant (FY12)						68,984					
b. PLANNED IN NEXT THREE YEARS												
<u>CATEGORY</u> <u>CODE</u>	<u>PROJECT TITLE</u>						<u>COST</u> <u>(\$000)</u>					
	MHS Power Substation (FY14)						9,000					
	Central Receiving (FY15)						9,641					
	Dormitory Replacement (FY15)						18,316					
	OPS Warehouse (FY15)						10,604					
<b>10. MISSION OR MAJOR FUNCTION</b> Agency activities are classified.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:</b>												
D. AIR POLLUTION											0	
E. WATER POLLUTION											0	
F. OCCUPATIONAL SAFETY AND HEALTH											0	



<b>1. Component</b> NSA/CSS DEFENSE	<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. Date</b> February 2010
<b>3. Installation and Location</b> RAF MENWITH HILL, UNITED KINGDOM		<b>4. Project Title</b> MHS PSC CONSTRUCTION - GENERATORS 10 & 11	
<b>5. Program Element</b>	<b>6. Category Code</b> 811-145	<b>7. Project Number</b> MWHL09-1004	<b>8. Project Cost (\$000)</b> \$2,000

IMPACT IF NOT PROVIDED:

If an upgraded and expanded generator facility is not provided, MHS will be unable to maintain continuous and reliable power to successfully support field critical mission equipment in support of the Global War on Terrorism. Additionally, existing mission critical equipment in those buildings will remain at constant risk of catastrophic mission failure due to lack of redundant power supplies. Failure of site power can also result in physical damage to mission critical equipment, which can take an unacceptable length of time to repair/replace. This facility would prevent the loss or damage of equipment essential to our efforts in support of the Global War on Terrorism.

ADDITIONAL:

Alternate methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement.

## 12. Supplemental Data:

## A. Estimated Design Data:

## 1. Status

- |                              |                  |
|------------------------------|------------------|
| (a) Refurbishment Start:     | Jan 2011         |
| (b) Refurbishment Complete:  | Jan 2012         |
| (c) Installation Start:      | Mar 2012         |
| (d) Installation Complete:   | Sep 2012         |
| (e) Type of Design Contract: | Design/Bid/Build |

## 2. Total Cost

Construction:	\$2,000K
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<b>1. COMPONENT NSA/CSS DEFENSE</b>		<b>FY 2011 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE</b>  February 2010				
<b>3. INSTALLATION AND LOCATION</b> UTAH NATIONAL GUARD FACILITY CAMP WILLIAMS, UTAH				<b>4. COMMAND</b>  NSA/CSS						<b>5. AREA CONSTRUCTION COST INDEX</b> 1.11		
<b>6. PERSONNEL STRENGTH</b>		PERMANENT			STUDENTS			SUPPORTED			TOTAL	
		OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV		
a. AS OF 30 SEP 2008		0	0	0	0	0	0	0	0	0	0	
b. END FY 2010		0	0	0	0	0	0	0	0	0	0	
<b>7. INVENTORY DATA (\$000)</b>												
A. TOTAL ACREAGE										200		
B. INVENTORY TOTAL AS OF 30 SEP 2008										208,400		
C. AUTHORIZED NOT YET IN INVENTORY										1,529,500		
D. AUTHORIZATION REQUESTED IN THIS PROGRAM										0		
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0		
F. PLANNED IN NEXT THREE YEARS										0		
G. REMAINING DEFICIENCY										0		
H. GRAND TOTAL										1,737,900		
<b>8. PROJECTS REQUESTED IN THIS PROGRAM:</b>												
<u>CATEGORY</u>	<u>PROJECT</u>	<u>PROJECT TITLE</u>					<u>COST</u>	<u>DESIGN</u>	<u>DESIGN</u>			
<u>CODE</u>	<u>NUMBER</u>						<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>			
141	21078	IC CNCI Data Center 1 - (FY11)					398,358	Nov 08	Feb 10			
<b>9. FUTURE PROJECTS:</b>												
a. INCLUDED IN FOLLOWING PROGRAM												
<u>CATEGORY</u>	<u>PROJECT</u>	<u>PROJECT TITLE</u>					<u>COST</u>					
<u>CODE</u>	<u>NUMBER</u>						<u>(\$000)</u>					
141	21078	IC CNCI Data Center 1 - (FY12)					247,000					
141	21078	IC CNCI Data Center 1 - (FY13)					194,000					
b. PLANNED IN NEXT THREE YEARS												
<u>CATEGORY</u>	<u>PROJECT</u>	<u>PROJECT TITLE</u>					<u>COST</u>					
<u>CODE</u>	<u>NUMBER</u>						<u>(\$000)</u>					
<b>10. MISSION OR MAJOR FUNCTION:</b> Agency activities are classified.												
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:</b>												
D. AIR POLLUTION						0						
E. WATER POLLUTION						0						
F. OCCUPATIONAL SAFETY AND HEALTH						0						

<b>1. Component</b> NSA/CSS DEFENSE	<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. Date</b> February 2010
<b>3. Installation and Location</b> UTAH NATIONAL GUARD FACILITY, CAMP WILLIAMS, UTAH		<b>4. Project Title</b> CNCI DATA CENTER INCREMENT 2	
<b>5. Program Element</b>	<b>6. Category Code</b> 141	<b>7. Project Number</b> 21078	<b>8. Project Cost (\$000)</b> Authorized FY11 \$0 Appropriated FY11 \$398,358

**9. COST ESTIMATES**

Item	U/M	Quantity	Unit Cost	Cost (\$000)
<b>PRIMARY FACILITY</b>				<u>1,139,499</u>
Building Modular Shells	LS			(56,420)
Mechanical	LS			(215,170)
Electrical	LS			(648,779)
Building Enhancements	LS			(111,270)
Site Preparation	LS			(19,380)
Fire Protection	LS			(5,050)
Building Security (Antiterrorism/Force Protection)	LS			(15,340)
Communications	LS			(6,010)
Commissioning	LS			(30,600)
General Conditions	LS			(31,480)
<b>SUPPORTING FACILITIES</b>				<u>190,600</u>
Visitor Control Center/Interim Visitor Control Center	LS			(14,390)
Vehicle Control Center/Interim Vehicle Control Center	LS			(3,850)
Primary Electrical Service	LS			(23,500)
Site Improvements/Demolition	LS			(6,500)
General Construction (water, sewer, gas)	LS			(105,410)
Site Security Perimeter Control (Antiterrorism/Force Protection)	LS			(26,800)
Construction Security	LS			(10,150)
<b>TOTAL CONSTRUCTION COST</b>				<u>1,330,099</u>
Contingency (~5%)				66,540
<b>SUBTOTAL</b>				<u>1,396,639</u>
SIOH (5.70%)				79,608
Design/build - Design Cost				53,204
Total Project Request				<u>1,529,451</u>
<b>TOTAL PROJECT COST (ROUNDED)</b>				<b><u>1,529,500</u></b>
Equipment & Utilities Provided From Other Appropriations				(192,000)
Planning & Design Cost Provided From Other Appropriation				(66,796)

**10. DESCRIPTION OF PROPOSED CONSTRUCTION:** This project will construct a 65 MW technical load data center to include modular structural components; finished flooring (both raised and administrative); ceiling; generators and associated air pollution control; electrical, mechanical, and fire suppression systems. Building utilities will include building electrical service, chilled water equipment and comfort cooling systems, communications backbone, fire alarm and protection systems, and plumbing. Site infrastructure will include primary electrical service to the site, stormwater management to mitigate environmental impact and, as required, water and sewer connection fees. Existing communications hut and airfield will be demolished. The facility is to be capable of concurrent maintainability. Adequate management facilities for U.S. Government and local services will be provided. Security measures include, but are not limited to; permanent Visitor Control Center for data center personnel; interim Visitor Control Center for construction personnel; interim and permanent perimeter security with fencing; access control facilities; permanent Vehicle Cargo Inspection Facility; interim Vehicle Cargo Inspection Facility for construction; internal security systems. Physical and Technical security of the construction site will be assured. The site will be surveyed for unexploded ordinance and remediation action taken as required. The requirement includes but is not limited to substations, roadways, adequate parking, fuel tanks, warehousing, potable water, waste water management, Chemical/Biological/Radiological/Nuclear (CBRN) detection, explosive storage vessels, and any other requirements resulting from design and/or mission developments. This project will be designed in accordance with the Uniform Federal Accessibility Standards/Americans with Disabilities Act/Accessibility Guidelines and Antiterrorism Force Protection (AT/FP) standards. Unified Facilities Criteria to be an integral part of design consideration. Contingency level based on site security requirements and volatility in construction materials and labor.

<b>1. Component NSA/CSS DEFENSE</b>	<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. Date</b> February 2010
<b>3. Installation and Location</b> UTAH NATIONAL GUARD FACILITY, CAMP WILLIAMS, UTAH		<b>4. Project Title</b> CNCI DATA CENTER INCREMENT 2	
<b>5. Program Element</b>	<b>6. Category Code</b> 141	<b>7. Project Number</b> 21078	<b>8. Project Cost (\$000)</b> Authorized FY11 \$0 Appropriated FY11 \$398,358

11. REQUIREMENT: 65 MW Tech Load      ADEQUATE: None      SUBSTANDARD: None

PROJECT: Construct a 65 MW Technical Load Data Center.

REQUIREMENT: This project is required to provide a 65MW technical load data center to support mission operations. The project will include, but not be limited to, the following and any other requirements resulting from design and/or mission developments:

- (1) Site Planning/Project Management
  - a) Mechanical and Electrical plants designed to prevent / reduce transfer of noise and vibrations to the data centers.
  - b) Adequate management facilities for U.S. Government and local services will be provided including, interim and permanent parking, roads and project management trailers and any other requirements resulting from design and or mission developments.
- (2) Facilities
  - a) Data center technical load of 65 MW distributed across raised floor is a design parameter for the facility.
  - b) The infrastructure support area and administrative areas will be designed to support state-of-the-art high-performance computing devices and associated hardware architecture.
  - c) Enhancements to the building for IT and security include construction as a Sensitive Compartmented Information Facility, as well as, requirements related to AT/FP.
  - d) Visitor Control, Vehicle Inspection Centers, permanent and temporary Utilities to site, adequate parking, roads, trailers, warehousing, Kennel and any other requirements resulting from design and or mission developments.
- (3) Structural
  - a) Technical load will be distributed across the data center areas.
  - b) Seismic considerations are to be made in the facility design.
  - c) Data center areas are to have depressed slab construction with a floor load rating of 1,500 PSF.
  - d) Facility command and control contained in a central modular office component.
  - e) Facility will be designed and constructed in accordance with the Unified Facilities Criteria.
  - f) Facility will have a loading dock with vehicle bays, at least three (3) of which will be equipped with dock levelers sized to handle tractor trailers and any other requirements resulting from design and or mission developments.
- (4) Electrical
  - a) Design technical load capacity is 65 MW with loads distributed across the data center areas.
  - b) Supervisory Control and Data Acquisition (SCADA) to either Power Distribution Unit level or distribution panel level and Energy Management and Control System (EMCS), as required.
  - c) Dedicated substation for each critical Uninterruptible Power System (UPS).
  - d) Generators include Selective Catalytic Reduction pollution control equipment, fuel oil storage tanks and distribution system.
  - e) Primary and Secondary Substations, UPS, Generator backup for facility systems and concurrent maintainability / reliability and any other requirements resulting from design and or mission developments.
- (5) Mechanical
  - a) Chilled water system is to be designed to support both air and water-cooled equipment, with SCADA and EMCS as required.
  - b) Each data center area is to have air and water-cooled equipment with Computer Room Air Handlers and Air Conditioners located external to the raised floor area. The piping headers / systems are to be designed to accommodate full electrical heat load.
  - c) Back-up capability for mechanical equipment and air distribution.
  - d) Cooling towers, Potable water, Water Treatment systems.
  - e) Fire protection - Double interlocked pre-action fire protection system for all electrical and mechanical support spaces.
  - f) Wet pipe for administrative and raised floor areas per DOD standards. Data halls will be provided with a clean agent fire suppression system and any other requirements resulting from design and or mission developments..
- (6) Security Systems
  - a) Video surveillance, Intrusion detection and CBRN detection systems and interim and permanent perimeter security with fencing.
  - b) Explosive Storage Vessel
  - c) Card access control system and any other requirements resulting from design and or mission developments.

Facility design will be to the highest LEED certification attainable within available resources with a target of LEED-NC Silver and will include: sustainable site characteristics, water and energy efficiency, materials and resources criteria, and indoor environmental quality.

<b>1. Component NSA/CSS DEFENSE</b>	<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. Date</b> February 2010
<b>3. Installation and Location</b> UTAH NATIONAL GUARD FACILITY, CAMP WILLIAMS, UTAH		<b>4. Project Title</b> CNCI DATA CENTER INCREMENT 2	
<b>5. Program Element</b>	<b>6. Category Code</b> 141	<b>7. Project Number</b> 21078	<b>8. Project Cost (\$000)</b> Authorized FY11 \$0 Appropriated FY11 \$398,358

**CURRENT SITUATION:**

No current data processing capability exists at the planned location.

**IMPACT IF NOT PROVIDED:**

Current and anticipated mission requirements will not be met without completion in the specified time frame.

**ADDITIONAL:**

- a) This project has been coordinated with the installation physical security plan, and all physical security measures are included.
- b) All required environmental and AT/FP measures are included.
- c) An economic analysis has been prepared and used in evaluating this project. This project is the most cost effective method to satisfy the requirement.
- d) This project will provide government support facilities, including but not limited to trailers or other suitable office space, communications equipment and services, furniture and other support as required to manage the design and construction phases of the project and any other requirements resulting from design and or mission developments.

**12. SUPPLEMENTAL DATA:**

- a) Status
  - (i) Date Design Started Nov 2008
  - (ii) Percent Completed as of Jan 2009 35%
  - (iii) Date Design - Build RFP Completed Feb 2010
  - (iv) Parametric Estimates have been used to develop project cost
  - (v) Type of Design Contract Design/Build
- b) Basis
  - (i) Standard or Definitive Design: No
  - (ii) Date Design was Most Recently Used: N/A
  - (iii) Percentage of Design Utilizing Standard Design N/A
- c) Total Design Cost (Total \$000)
  - (i) Production of Plans and Specs
    - Design-Build RFP - P&D \$45,000
    - Design-Build Design - MILCON \$53,204
  - (ii) All Other Design Cost - P&D \$15,000
  - (iii) Total Design Cost (iii)=(i)+(ii) or (iv)+(v) \$113,204
  - (iv) Contract
    - Design-Build RFP \$45,000
    - Design-Build Design \$53,204
    - (v) In House \$15,000
- d) Construction Contract Award Aug 2009
- e) Construction Start Sep 2009
- f) Construction Complete - Project May 2014

<b>1. COMPONENT NSA/CSS DEFENSE</b>		<b>FY 2011 MILITARY CONSTRUCTION PROGRAM</b>						<b>2. DATE</b>  February 2010			
<b>3. INSTALLATION AND LOCATION</b>  FORT GORDON, GEORGIA (AUGUSTA)				<b>4. COMMAND</b>  NSA/CSS						<b>5. AREA CONSTRUCTION COST INDEX</b>  0.84	
<b>6. PERSONNEL STRENGTH</b>		<b>PERMANENT</b>			<b>STUDENTS</b>			<b>SUPPORTED</b>			<b>TOTAL</b>
Army Installation		OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. AS OF					x						
b. END FY					CLASS	IFIED					
<b>7. INVENTORY DATA (\$000)</b>											
A. TOTAL ACREAGE											
B. INVENTORY TOTAL AS OF											
C. AUTHORIZED NOT YET IN INVENTORY											340,854
D. AUTHORIZATION REQUESTED IN THIS PROGRAM											12,855
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM											0
F. PLANNED IN NEXT THREE YEARS											0
G. REMAINING DEFICIENCY											0
H. GRAND TOTAL											340,854
<b>8. PROJECTS REQUESTED IN THIS PROGRAM:</b>											
<u>CATEGORY</u>	<u>PROJECT</u>	<u>PROJECT TITLE</u>					<u>COST</u>	<u>DESIGN</u>	<u>COMPLETE</u>		
<u>CODE</u>	<u>NUMBER</u>						<u>(\$000)</u>	<u>START</u>	<u>Jun 2010</u>		
141	20489	NSA/CSS Georgia MOD-2 Facility (FY11)					\$12,855	Nov 2009			
<b>9. FUTURE PROJECTS:</b>											
a. INCLUDED IN FOLLOWING PROGRAM											
<u>CATEGORY</u>	<u>PROJECT TITLE</u>					<u>COST</u>					
<u>CODE</u>						<u>(\$000)</u>					
b. PLANNED IN NEXT THREE YEARS											
<u>CATEGORY</u>	<u>PROJECT TITLE</u>					<u>COST</u>					
<u>CODE</u>						<u>(\$000)</u>					
<b>10. MISSION OR MAJOR FUNCTION</b> Agency activities are classified.											
<b>11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:</b>											
G. AIR POLLUTION											0
H. WATER POLLUTION											0
I. OCCUPATIONAL SAFETY AND HEALTH											0

<b>1. Component</b> NSA/CSS DEFENSE		<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. Date</b> February 2010	
<b>3. Installation and Location</b> FORT GORDON (AUGUSTA), GEORGIA			<b>4. Project Title</b> NSA/CSS GEORGIA TRAINING FACILITY		
<b>5. Program Element</b>	<b>6. Category Code</b> 141	<b>7. Project Number</b> 20489	<b>8. Project Cost (\$000)</b> \$12,855		
<b>9. COST ESTIMATES</b>					
Item		U/M	Quantity	Unit Cost	Cost (\$000)
<b>PRIMARY FACILITY</b>					
ARCH/CIVIL SCIF CONSTRUCTION		LS			<u>11,583</u>
MECHANICAL SCIF CONSTRUCTION		LS			(1,953)
ELECTRICAL SCIF CONSTRUCTION		LS			(3,016)
SECURITY REQUIREMENTS		LS			(2,457)
ANTI-TERRORISM/FORCE PROTECTION		LS			(1,367)
BUILDING INFORMATION SYSTEMS		LS			(1,475)
SUB TOTAL					<u>11,583</u>
CONTINGENCY (5%)					579
SUB TOTAL					12,162
SIOH (5.70%)					693
TOTAL REQUEST					<b><u>12,855</u></b>
<b>Provided From Other Appropriations</b>					
Equipment / IT-COMMs / Furniture and demolition of MOD 1					(1,650)
Equipment / IT -COMMs / Furniture removal from MOD 2					(365)
CDE Furniture and Equipment Fit-up of MOD 2					(3,190)
IT - COMMs Fit-up of MOD 2					(8,100)
<b>10. Description of Proposed Construction</b>					
<p>Provide architectural, civil, mechanical, and electrical improvements and retrofits to convert the existing MOD-2 facility into a combined classified/unclassified multi-function facility. Install required structures, separations and ingress/egress control points in accordance with applicable SCIF construction criteria. Modify and/or upgrade mechanical and electrical systems to accommodate new facility use and occupancy to comply with SCIF standards for separation of classified and unclassified areas. Install physical security and anti-terrorism components necessary to provide required protection, monitoring and control of the facility to include access control, fencing, alarm systems, cameras, and lighting. Provide building information systems as required for combined classified and unclassified mission and/or training, which will allow for variable mission applications and growth.</p>					
<b>11. REQUIREMENT:</b> 72,000 SF		<b>ADEQUATE:</b> None		<b>SUBSTANDARD:</b> None	
<b>PROJECT:</b> This project will provide a combined classified/unclassified multi-function facility area to support mission requirements at NSA/CSS Georgia.					
<b>REQUIREMENT:</b>					
<p>This project includes mission and office areas, classrooms, libraries, faculty offices, conference rooms, labs, administrative and IT support space for training, new variable mission applications, and mission growth. This project is required due to the planned return of four training facilities currently housed in Buildings 21721, 21721, 28423, and 28431 to the Fort Gordon Army Base. The loss of these training facilities, combined with the continued increases in personnel strength and the lack of alternative facilities available for NSA/CSS Georgia training and mission, make this project imperative to the support of the NSA mission. Facility design will seek to attain a LEED-CI Silver certification as feasible within available resources and may include sustainable site characteristics, water and energy efficiency measures, sustainable materials and resource criteria, and indoor environmental quality enhancements.</p>					

<b>1. Component</b> NSA/CSS DEFENSE	<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. Date</b> February 2010
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<b>5. Program Element</b>	<b>6. Category Code</b> 141	<b>7. Project Number</b> 20489	<b>8. Project Cost (\$000)</b> \$12,855

**CURRENT SITUATION:** Joint language training is currently conducted in Buildings 21720, 21721, 28423, and 28431 on Fort Gordon, in close proximity to actual mission spaces and within critical reach of mission personnel. This arrangement provides a highly effective environment for both civilian and military personnel. These buildings are scheduled to be returned to the Army upon completion of the new building. The new Cryptologic Center building does not provide facilities for the critical training leg of the NSA/CSS Georgia mission. MOD-2 was previously authorized and funded as a MILCON facility and will now be accounted for as permanent real property.

**IMPACT IF NOT PROVIDED:** Without this combined classified/unclassified multi-function facility, NSA/CSS Georgia will not be able to meet its operational requirements. The current critical capabilities would need to be relocated to a remote location. This would have a serious impact on the value and effectiveness of NSA/CSS Georgia, due to loss of the aforementioned close proximity of mission operations and personnel.

12. Supplemental Data:

A. Estimated Design Data:

1. Status

(a) Date Design Started:	NOV 09
(b) Percent Completed as of January 2010:	35%
(c) Date Design Complete:	Jun 10
(d) Type of Design Contract:	Design/Bid/Build

2. Basis

(a) Standard or Definitive Design:	No
(b) Date Design was Most Recently Used:	N/A

3. Total Cost (c) = (a)+(b) or (d)+(e) (\$000)

(a) Production of Plans and Specifications:	780
(b) All Other Design Costs:	520
(c) Total:	1,300
(d) Contract:	1,300
(e) In-House:	

4. Contract Award:	Aug 11
5. Construction Start:	Sept 11
6. Construction Completion:	Aug 12

<b>1. COMPONENT NSA/CSS DEFENSE</b>	<b>FY 2011 MILITARY CONSTRUCTION PROGRAM</b>										<b>2. DATE</b>  February 2010	
<b>3. INSTALLATION AND LOCATIONS</b>  FORT GEORGE G. MEADE, MARYLAND					<b>4. COMMAND</b>  NSA/CSS					<b>5. AREA CONSTRUCTION COST INDEX</b> <b>1.02</b>		
<b>6. PERSONNEL STRENGTH</b>	PERMANENT				STUDENTS			SUPPORTED			TOTAL	
Tenant of USAF	OFF				ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV
A. AS OF												
B. END FY							CLASS	IFIED				
<b>7. INVENTORY DATA (\$000)</b>												
A. TOTAL ACREAGE											0	
B. INVENTORY TOTAL AS OF Jul 2006											556,301	
C. AUTHORIZED NOT YET IN INVENTORY											60,358	
D. AUTHORIZATION REQUESTED IN THIS PROGRAM											210,000	
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM											0	
F. PLANNED IN NEXT THREE YEARS											133,764	
G. REMAINING DEFICIENCY											2,235,900	
H. GRAND TOTAL											3,111,953	
<b>8. PROJECTS REQUESTED IN THIS PROGRAM:</b>												
CATEGORY	PROJECT	<u>PROJECT TITLE</u>						COST	DESIGN	STATUS		
<u>CODE</u>	<u>NUMBER</u>							<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>		
812	17866	North Campus Utility Plant (FY11)						210,000	OCT09	15%		
<b>9. FUTURE PROJECTS:</b>												
a. INCLUDED IN FOLLOWING PROGRAM												
CATEGORY	<u>PROJECT TITLE</u>						COST					
<u>CODE</u>							<u>(\$000)</u>					
No Projects Planned for FY12												
b. PLANNED IN NEXT THREE YEARS												
CATEGORY	<u>PROJECT TITLE</u>						COST					
<u>CODE</u>							<u>(\$000)</u>					
812	10563	NSAW PSAT Assessment (FY13)						16,340				
812	17836	South Campus Building Feeders (FY13)						15,724				
812	17865	New Domestic Water Main (FY13)						9,548				
812	17869	NSAW Power Distribution (FY13)						28,000				
		New Boiler Plant (FY13)						20,000				
812	17868	Substation Inter-Ties/Generation Integration						2,700				
		Control (FY14)										
812	17869	NSAW Power Distribution (FY14)						40,452				
812	11800	CMC Replacement (FY15)						38,562				
<b>10. MISSION OR MAJOR FUNCTION</b>												
Agency activities are classified.												
<b>1. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:</b>												
A. AIR POLLUTION											0	
B. WATER POLLUTION											0	
C. OCCUPATIONAL SAFETY AND HEALTH											0	

<b>1. Component</b> NSA/CSS DEFENSE	<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. Date</b> February 2010		
<b>3. Installation and Location</b> NSA, FORT GEORGE G. MEADE, MARYLAND		<b>4. Project Title</b> NORTH CAMPUS UTILITY PLANT			
<b>5. Program Element</b>	<b>6. Category Code</b> 81320	<b>7. Project Number</b> 17866	<b>8. Project Cost (\$000)</b> \$219,360		
<b>9. COST ESTIMATES</b>					
Item		U/M	Quantity	Unit Cost	Cost (\$000)
<b>PRIMARY FACILITY</b>					<u>179,316</u>
NORTH SUBSTATION (115/13.8 KV, 50 MVA)		LS			(52,364)
GENERATING PLANT (13.8 KV, 55 MW plant)		LS			(126,952)
<b>SUPPORTING FACILITIES</b>					<u>18,330</u>
UNDERGROUND COMMUNICATIONS DISTRIBUTION		LS			(913)
WATER, SEWER, GAS		LS			(1,266)
PAVING, WALKS, CURBS AND GUTTERS		LS			(780)
STORMWATER MANAGEMENT		LS			(35)
SITE IMPROVEMENTS (695) / DEMOLITION (7,995)		LS			(9,062)
SECURITY		LS			(4,362)
UNDERGROUND ELECTRICAL DISTRIBUTION		LS			(1,084)
LANDSCAPING & CLEAN-UP		LS			(205)
A/E TYPE C SERVICES		LS			(491)
TESTING AND INSPECTIONS		LS			(122)
PERMITS		LS			(10)
SUBTOTAL					<u>197,646</u>
CONTINGENCY (5.00%)					9,882
SUBTOTAL PROJECT REQUEST					207,528
SIOH (5.70%)					11,829
SUB TOTAL REQUEST					<u>219,357</u>
TOTAL PROJECT COST (ROUNDED)					<u><b>219,360</b></u>
<p><b>10. DESCRIPTION OF PROPOSED CONSTRUCTION:</b> Construct the North Campus Utility Plant to include construction of the North Substation (115/13.8 KV) to replace existing Substations 1 and 4 (total 115/13.8 KV), and a new Generation Plant (55 MW) with pollution control. Supporting facilities include primary and secondary electric service, communications distribution, gas, water, steam distribution, natural gas, sanitary sewer; paving, walks, curbs, gutters; storm water management; and site improvements. Security and antiterrorism measures include fencing, access control and alarm systems, cameras, and exterior lighting. Demolition includes two existing substations and site infrastructure as required.</p>					
11. REQUIREMENT: 115/13.8 KV		ADEQUATE: None		SUBSTANDARD: 115/13.8 KV	
<b>PROJECT:</b>					
Construct a 115/13.8 KV substation (50 MVA) and a 55 MW generation plant to upgrade the electrical distribution system serving NSA Headquarters, and construct a replacement parking lot. (Current Mission.)					
<b>REQUIREMENT:</b>					
This project is required to upgrade the electrical power distribution system to NSA Headquarters to improve the reliability of the electrical infrastructure and to support current and future NSA mission needs. This project provides a new 115/13.8 KV North Substation, which replaces the existing antiquated 115/13.8 KV Substations #1 and #4. The substation must provide 100% secure, rapid, reliable electrical service and emergency power to critical NSA operations. The project also constructs a 55 MW power generation plant to provide backup power to NSA. The 55 MW generation plant provides a critical 100% backup capability not currently available for the load on Substations #1 and #4. The new North Substation must be built before demolition of the existing Substations #1 and #4 to ensure seamless continuity of the NSA mission. After construction of the North Substation, Substations #1 and #4 will be demolished.					

<b>1. Component</b> NSA/CSS DEFENSE	<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. Date</b> February 2010
<b>3. Installation and Location</b> NSA, FORT GEORGE G. MEADE, MARYLAND		<b>4. Project Title</b> NORTH CAMPUS UTILITY PLANT	
<b>5. Program Element</b>	<b>6. Category Code</b> 81320	<b>7. Project Number</b> 17866	<b>8. Project Cost (\$000)</b> \$219,360

The long-term objective is to become self-sufficient from an emergency power basis, driven by security and reliability requirements that meet the needs of the NSA mission. The constantly changing mission of the facility load centers requires a more flexible power system to meet the demand. The power distribution system should be able to redirect power to buildings to meet the needs resulting from continuously changing mission requirements or unexpected system failure conditions. Critical, sensitive NSA operations require upgrade to employ state-of-the-art technology advances in power systems' efficiency, safety, maintainability, pollution control, and most importantly, reliability.

**CURRENT SITUATION:**

The existing Substation #1 was built in 1992 and Substation #4 was built in 1984 and cannot provide the 100% reliable power necessary to continue the NSA mission. The existing electrical power distribution network is near the end of its useful life and prone to unplanned power outages. The outages, both power system and weather-induced, are very costly and negatively affect reliability of the power delivery system.

The existing generating plants are outdated, inefficient, and do not meet the demand for 100% reliable back-up power generation necessary to continue NSA operations without interruption. Operators and maintainers face greater challenges securing replacement parts, training, and other support for these older systems. Existing systems are not equipped with pollution control devices.

**IMPACT IF NOT PROVIDED:**

If this project is not provided, NSA's critical operations will continue without assurance of reliable, efficient power to support its needs. Back-up power generation will be less reliable and efficient than is demanded by the NSA mission.

If this project is not provided, the existing facilities will continue to operate, but at a progressively reduced levels of reliability. As mission power requirements continue to increase, any form of power outages will pose a serious threat to the NSA mission.

**ADDITIONAL:**

This project has been coordinated with NSA/Ft. Meade's physical security plan, and complies with all required physical security and/or combating terrorism measures. Alternative methods of meeting NSA/Ft. Meade's utility requirements have been explored during the development of this project, and this project is the only feasible option to meet those requirements. Typical NSA construction is more complex than a similar project on an average military installation, for several reasons. First, the nature of NSA work mandates very closely scheduled events, with outages and other sensitive work typically occurring on weekends and at night. Second, limited access to controlled facilities during the programming and design phases can lead to unforeseen conditions during construction. Third, access to the installation, clearances for personnel, waiting for escorts, and other daily processes at NSA create additional costs for contractors. Escorts are required for positive control of access to primary and secondary utilities which service critical NSA operational facilities.

<b>1. Component</b> NSA/CSS DEFENSE	<b>FY 2011 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. Date</b> February 2010
<b>3. Installation and Location</b> NSA, FORT GEORGE G. MEADE, MARYLAND			<b>4. Project Title</b> NORTH CAMPUS UTILITY PLANT
<b>5. Program Element</b>	<b>6. Category Code</b> 81320	<b>7. Project Number</b> 17866	<b>8. Project Cost (\$000)</b> \$219,360

## 12. Supplemental Data:

## A. Estimated Design Data:

## 1. Status

- |   |                  |
|---|------------------|
| (a) Date Design Started:                  | Oct 09           |
| (b) Percent Completed as of January 2010: | 15%              |
| (c) Date Design Complete:                 | SEP 10           |
| (d) Type of Design Contract:              | Design/Bid/Build |

## 2. Basis

- |   |         |
|---|---------|
| (a) Standard or Definitive Design:      | Partial |
| (b) Date Design was Most Recently Used: | FY10    |

## 3. Total Cost (c) = (a)+(b) or (d)+(e) (\$000)

- |   |        |
|---|--------|
| (a) Production of Plans and Specifications: | 10,600 |
| (b) All Other Design Costs:                 | 4,400  |
| (c) Total:                                  | 15,000 |
| (d) Contract:                               | 15,000 |
| (e) In-House:                               |        |

- |                             |        |
|-----------------------------|--------|
| 4. Contract Award:          | Oct 10 |
| 5. Construction Start:      | Nov 10 |
| 6. Construction Completion: | Aug 13 |