

**National Security Agency
Military Construction, Defense-Wide
(\$ in Thousands)**

<u>State/Installation/Project</u>	<u>Authorization Request</u>	<u>Approp. Request</u>	<u>New/ Current Mission</u>	<u>Page No.</u>
Maryland				
Fort Meade				
NSAW Campus Feeders Phase 2	33,745	33,745	C	135
NSAW Recapitalization Building #2 Incr 1	782,332	34,897	C	137
Total	816,077	68,642		

1. COMPONENT NSA/CSS DEFENSE	FY 2016 MILITARY CONSTRUCTION PROGRAM						2. DATE February 2015				
3. INSTALLATION AND LOCATION FT. George G. Meade, Maryland	4. COMMAND NSA/CSS						5. AREA CONSTRUCTION COST INDEX 1.02				
6. PERSONNEL STRENGTH IC Community Installation CLASSIFIED	PERMANENT		STUDENTS			SUPPORTED			TOTAL		
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV		
				CLASS	IFIED						
7. INVENTORY DATA (\$000)											
A. TOTAL ACREAGE										0	
B. INVENTORY TOTAL AS OF DEC 2014										0	
C. AUTHORIZED NOT YET IN INVENTORY										0	
D. APPROPRIATION REQUESTED IN THIS PROGRAM										68,642	
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										213,158	
F. PLANNED IN NEXT THREE YEARS										1,049,964	
G. PLANNING AND DESIGN COST										0	
H. REMAINING DEFICIENCY										0	
I. GRAND TOTAL										1,331,764	
8. PROJECTS											
REQUESTED IN											
THIS PROGRAM:											
CATEGORY	PROJECT	PROJECT TITLE					COST	DESIGN	DESIGN		
<u>CODE</u>	<u>NUMBER</u>						<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>		
81242	31066	NSAW Campus Buildings Feeders Phase 2 (FY16)					33,745	OCT 2013	DEC 2014		
14162	30583	NSAW Recapitalization Building #2, Incr 1 (FY16)					34,897	MAY 2014	OCT 2015*		
9. FUTURE PROJECTS:											
a. INCLUDED IN											
FOLLOWING											
PROGRAM (FY17)											
CATEGORY	PROJECT	PROJECT TITLE					COST				
<u>CODE</u>	<u>NUMBER</u>						<u>(\$000)</u>				
81242	31067	NSAW Campus Buildings Feeders Phase 3 (FY17)					18,410				
14162	30583	NSAW Recapitalization Building #2, Increment 2 (FY17)					194,748				
b. PLANNED IN											
NEXT THREE											
YEARS (FY18-20)											
CATEGORY	PROJECT	PROJECT TITLE					COST				
<u>CODE</u>	<u>NUMBER</u>						<u>(\$000)</u>				
14162	30583	NSAW Recapitalization Building #2, Increment 3 (FY18)					314,150				
61050	32122	Vehicle Control Inspection Facility (VCIF)/Vehicle Control Points (VCPs)(FY18)					41,681				
14162	30583	NSAW Recapitalization Building #2, Increment 4 (FY19)					238,537				
14162	32546	NSAW Recapitalization Building #3, Increment 1 (FY19)					83,274				
85110	32772	NSAW VMS North/South Connectors (FY 20)					138,511				
61050	32123	Vehicle Control Inspection Facility (VCIF)/ Vehicle Control Points (VCPs) (FY20)					34,794				
14162	32546	NSAW Recapitalization Building #3, Increment 2 (FY20)					199,017				
Footnote:											
*RFP completion											
date											

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. Component NSA/CSS DEFENSE		FY 2016 MILITARY CONSTRUCTION PROJECT DATA		2. Date February 2015	
3. Installation and Location Ft. George G. Meade, Maryland			4. Project Title NSAW CAMPUS BUILDINGS FEEDERS PHASE 2		
5. Program Element	6. Category Code 81242	7. Project Number 31066	8. Project Cost (\$000) \$33,745		
9. Cost Estimates					
Item		U/M	Quantity	Unit Cost	Cost
PRIMARY FACILITIES N/A					=
SUPPORTING FACILITIES					<u>28,483</u>
Electrical Ductbanks		LS			(13,298)
Electrical Feeders and Components		LS			(11,429)
Existing Feeders Removal		LS			(99)
Site Work		LS			(3,128)
Decommissioning (Generator/Fuel Tanks/Associated Components)		LS			(529)
TOTAL CONSTRUCTION COST					<u>28,483</u>
Contingency					2,849
Subtotal					<u>31,332</u>
SIOH (5.7%)					1,786
Design During Construction					627
Total Project Cost					<u>33,745</u>
TOTAL PROJECT COST					<u>33,745</u>
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: The proposed construction provides a new campus electrical distribution system comprised of new ductbanks, manholes, and medium voltage power feeders. Load interrupter switches, which eliminate medium voltage feeder splices, will be installed at the point of connection for the buildings on the NSAW Central Campus. In addition, automatic circuit breaker and other electrical components will be installed in support of the proposed electrical configuration. Construction also requires, storm water management, erosion and sediment control, as well as demolition and restoration of roadways, parking lots, landscaping, fences, and other site features impacted by this work. In addition, back-up generators, which will no longer be required, will be decommissioned and removed with their associated fuel storage tanks, delivery systems, and ancillary equipment. The back-up generation will be provided from a different source. Some existing ductbanks and manholes are planned to be abandoned in place; but existing feeders will be removed.</p>					
<p>11. REQUIREMENT: 13.8 KV – 500-750 kcmil feeders – Ductbanks with 6” Conduits SUBSTANDARD: 13.8 KV – 350-500 kcmil feeders – Ductbanks with 3”, 4”, and 5” Conduits ADEQUATE: None</p> <p>PROJECT: NSAW Campus Buildings Feeders – Central Campus (Phase II): Construction to replace all existing ductbanks and medium voltage power feeders. In addition, decommission back-up generators along with their associated fuel storage tanks and associated components.</p> <p>REQUIREMENT: To improve the reliability of the prime and emergency electrical power infrastructure required to support current and future mission needs, the NSAW campus is upgrading its power infrastructure with two new Primary Substations (PSs) and new upgraded Secondary Unit Substations (SUSs) in all of the major NSAW buildings. The new ductbanks will provide larger diameter conduit to accommodate the required larger medium voltage power feeders. The larger feeders, and new ductbanks configuration, load interrupter switches, automatic circuit breaker, and other electrical components; will allow for a complete and flexible distribution while minimizing feeder splices and their associated vulnerabilities. The decommissioning of the back-up generators will include the decommission and removal of the above and underground fuel storage tanks, fuel pump, fuel pipe lines, and remediation of hazardous material (i.e., coolant, solvents, cleaners, asbestos containing material (ACM), lead-containing material (LCM), etc) as required.</p>					

1. Component NSA/CSS DEFENSE		FY 2016 MILITARY CONSTRUCTION PROJECT DATA		2. Date February 2015	
3. Installation and Location Ft. George G. Meade, Maryland			4. Project Title NSAW CAMPUS BUILDINGS FEEDERS PHASE 2		
5. Program Element	6. Category Code 81242	7. Project Number 31066	8. Project Cost (\$000) \$33,745		

CURRENT SITUATION: The existing underground electrical ductbanks and manholes are more than 30 years old, and the power feeders are undersized for current and projected power loads. The existing conduits will not be able to accommodate the new, larger cable size requirements.

IMPACT IF NOT PROVIDED: As the NSAW campus electrical loads increase to meet demand, the risks of unplanned outages resulting from excessive thermal loading poses a risk to the undersized, aging campus electrical distribution ductbank, conduits, and medium voltage power feeders. As power requirements continue to increase, any form of unplanned power outages will pose a serious threat to the NSAW mission. If this project is not provided, NSAW will be operating under progressively reduced levels of power reliability.

12. SUPPLEMENTAL DATA:

1. Status

- (a) Design Start: October 2013
- (b) Design 35% Complete: January 2014
- (c) Design 100% Complete: December 2014
- (d) Type of Contract: Design/Bid/Build

2. Basis

- (a) Standard of Definitive Design
- (b) Where design was most recently used: N/A

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

- (a) Production of plans and specifications \$2,000
- (b) All other design costs \$0
- (c) Total design cost (c) = (a) + (b) or (d) + (e) \$2,000
- (d) Contract \$2,000
- (e) In house N/A

4. Construction Contract Award:

March 2016

5. Construction Start Date:

May 2016

6. Construction Completion Date:

May 2018

7. Total Project Cost:

\$33,745

Additional Information:

- Phase I: NSAW Campus Buildings Feeder – North Campus (FY15 - \$54,207)
- Phase II: NSAW Campus Buildings Feeder – Central Campus (FY16 - \$33,745)
- Phase III: NSAW Campus Buildings Feeder – South Campus (FY17 - \$18,410)

1. Component NSA/CSS DEFENSE		FY 2016 MILITARY CONSTRUCTION PROJECT DATA		2. Date February 2015	
3. Installation and Location FT. George G. Meade, Maryland			4. Project Title NSAW RECAPITALIZATION BUILDING #2, INCREMENT 1		
5. Program Element	6. Category Code 14162	7. Project Number 30583	8. Project Cost (\$000) \$782,332 Authorization FY16: \$782,332 Appropriation FY16: \$34,897		

9. Cost Estimate

Item	U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITY				<u>627,951</u>
NSAW Recapitalization Building #2				
Operations Building	SF	826,114	538.02	(444,466)
Parking Garage	SF	1,121,000	83.19	(93,260)
Mechanical Plant	SF	72,268	726.80	(52,525)
OMSI Costs	LS			(1,000)
Sustainability and EAct05 (2%)	LS			(11,850)
Antiterrorism/Force Protection	LS			(24,850)
SUPPORTING FACILITIES				<u>39,053</u>
Electrical Service and Generation	LS			(21,808)
Water, Chilled Water, Reclaimed Water and Sewer	LS			(2,628)
Paving, Walks, Curbs and Gutters and Roadways	LS			(5,439)
Storm Drainage	LS			(2,834)
Site Improvements and Demolition	LS			(4,255)
Information Systems Ductbank	LS			(1,061)
Antiterrorism/Force Protection	LS			(1,029)
Design-Build Design Cost @ 4%	LS			<u>27,750</u>
Estimated Contract Cost				<u>694,754</u>
Contingency (5.0%)				34,738
SUBTOTAL				<u>729,491</u>
SIOH (5.7%)				41,581
Design During Construction (1.5%)				10,942
Total Project Request				782,015
TOTAL PROJECT COST				<u>782,332</u>
Equipment from other appropriations				<u>210,000</u>

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a new Operations Facility of approximately 898,382 GSF for approximately 3,000 personnel including supporting facilities with associated site work and environmental measures. The facility will be built on the National Security (NSA) East Campus at Fort George G. Meade, MD. The FY16 authorized amount represents the entire funding required to execute this MILCON project. The FY16 appropriation represents the first increment of a four part funding profile.

The general scope of work for the project consists of the following:

The primary facility will be comprised of a multi-story structure with full basement. The facility includes open office areas and operations floor, analyst/planner collaboration areas, cafeteria and other operations. The mission support areas provide joint staff offices, executive offices, machine rooms, storage, and meeting rooms.

Project consists of core and shell structure and foundations; elevator conveyance systems; electrical/mechanical service and distribution components and systems; fire protection, alarm and suppression; information technology infrastructure, communications, and security systems support infrastructure; exterior finishes and weatherproofing. Interior build out will provide raised access floor systems, acoustically-rated interior partitions and ceilings, power, lighting, environmental control and communications. The primary facility is not a standard design. The entire structure will be built to Sensitive Compartmented Information Facility (SCIF) standards. Project includes redundant primary power and Uninterruptable Power Supply (UPS) systems to ensure continuity of operations. This project requires comprehensive interior design.

1. Component NSA/CSS DEFENSE		FY 2016 MILITARY CONSTRUCTION PROJECT DATA		2. Date February 2015	
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5. Program Element	6. Category Code 14162	7. Project Number 30583	8. Project Cost (\$000) \$782,332 Authorization FY16: \$782,332 Appropriation FY16: \$34,897		

Site infrastructure will include primary electrical service to the site, water, sewer, and telecommunications pathways. The supporting facilities include, site preparation and infrastructure improvements, utility services, and perimeter security measures. Site preparation will include standard clearing, grubbing, cut, fill, grading and environmental protection structures. Additional site work consists of curb and gutter, walkways, patios and roads. Utility site construction will provide emergency backup power generation and cooling equipment. Perimeter security construction will extend existing perimeter fence line and surveillance capabilities.

Provide approximately 3,000 new parking spaces for staff and visitors by expanding an existing parking structure and an additional 500 spaces in a surface lot. The 500 space surface lot is required due to transplanting parking spaces required for ECB1, JOC and ECB-MC projects.

Since the project is located on an active East Campus development site, close coordination with multiple concurrent MILCON project activities will be necessary to allow continuous, uninterrupted use of the site during construction and to ensure contractor lay-down areas and access are maintained and boundaries secured.

This project will require road improvements on/inside the NSAW Campus in support of increased personnel on East Campus due to East Campus Building 2. Improvements shall follow standards, guidelines, regulations and best practices as identified by Maryland State Highway Administration (SHA), the Manual on Uniform Traffic Control Devices (MUTCD), and the American Association of State Highway and Transportation Officials (AASHTO).

This project will include storm water management facilities in compliance with Maryland Department of the Environment requirements for Environmental Site Design, as well as EISA Section 438.

This project will include sustainable features cost effectively integrated to meet, at minimum Leadership in Energy and Environmental Design (LEED) Green Building Council rating system Silver-certified level requirements.

This project will be designed in accordance with, but not limited to, Architecture Barriers Act (ABA) Requirements and Antiterrorism Force Protection (ATFP) Standards. Unified Facilities Criteria (UFC) will be an integral part of design consideration. This project is to be compliant with the current version of the MD Procurement Office (MPO) Facilities Engineering Design Standards (FEDS), and the latest version of the East Campus Installation Design Guidelines (IDG).

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5. Program Element	6. Category Code 14162	7. Project Number 30583	8. Project Cost (\$000) \$782,332 Authorization FY16: \$782,332 Appropriation FY16: \$34,897
<p>11. REQUIREMENT: New: Approximately 898,382 GSF Operations Building (and associated mechanical plant) and 1,121,000 SF Parking Structure ADEQUATE: None SUBSTANDARD: None</p> <p>PROJECT: Construct multi-story operations facility and structured parking facility (Current Mission).</p> <p>REQUIREMENT: This facility is necessary to provide an environment necessary to support mission operations and to further implement NSA's recapitalization plan. The NSA recapitalization plan calls for the phased replacement of aging facilities that have exceeded their service life and can no longer support the technology required for new missions. Additionally, this facility will provide the NSA with a flexible building that can provide the modern infrastructure necessary to support current and future technological requirements.</p> <p>This facility will incorporate new technologies and processes that will generate beneficial synergies through integration and collaboration. Through an open work environment that incorporates scalable, reconfigurable work spaces, missions will be able to achieve both actual and virtual collaboration while maintaining their functional discipline. To meet these demands in a wholly independent manner and with required levels of capacity and reliability, critical infrastructure will be constructed to provide redundancy.</p> <p>CURRENT SITUATION: Currently, activities in support of both the DoD and the nation are conducted individually in an NSA-centric structure. Network operations are prevented from realizing the full potential of the collaborative, cohesive work environments required for this initiative. To meet the immediate need, existing facilities are being reconfigured and supplemented through leased space. However, these efforts are limited by the availability of facilities with suitable locations, adequate AT/FP profiles, and power and cooling infrastructure capable of supporting mission critical activities.</p> <p>IMPACT IF NOT PROVIDED: If this facility is not funded, NSA will continue to overburden existing facilities and infrastructure impeding the ability to effectively operate and meet its mission.</p> <p>ADDITIONAL: The project has been coordinated with the installation facilities master plan and physical security plan. It complies with all required physical security and/or anti-terrorism measures. All required and anticipated physical security and antiterrorism protection measures are included. An Environmental Assessment has been completed that leverages the completed Environmental Impact Study for the NSA campus. Alternative methods of meeting requirements have been explored during the development of this project. An economic analysis has been prepared for this project and utilized in evaluating this project and determined this project to be the only viable option to satisfy the requirement. Construction estimates include costs associated with construction on a controlled access site, clearances for personnel, labor inefficiencies associated with escort requirements, and other daily processes at NSA. Escorts are required for positive control of access to primary and secondary utilities, which service other critical NSA facilities. Stormwater management to mitigate environmental impact per EIS requirements are included. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Facility will be designed and certified to LEED-NC Silver under USGBC LEED v3 2009. This project is to be compliant with the current version of NSA's, Facilities Engineering Design Standards (FEDS).</p>			

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12. SUPPLEMENTAL DATA:

1. Status
 - A. Design start date: MAY 2014
 - B. Percent complete as of 22 DEC 2014 15%
 - C. Type of design contract: Design/Build
2. Basis
 - A. Standard or definitive design: No
 - B. Where design was most recently used: N/A
 - C. Percentage of design utilizing standard design: N/A
3. Total Cost (C) = (a) + (b) or (d) + (e) (\$000)

(a) Production of plans and specs:	\$31,450
(i) Design Build RFP – P&D	\$ 3,700
(ii) Design Build Design – MILCON	\$27,750
(b) All other design cost:	\$0
(c) Total design cost (C) = (a) + (b) OR (d) + (e):	\$31,450
(d) Contract Architect-Engineer Design Cost, Estimated	\$31,450
(e) In-house Design Cost Plus Architect Engineer Contract Supervision and Administration Cost \	
Government Forces Design Cost, Estimated	\$0

 - a. Construction Contract Award: July 2016
 - b. Construction Start Date: Sept 2016
 - c. Construction Completion Date: Sept 2020

Additional Information:

- FY16 Increment 1: \$ 34,897
- FY17 Increment 2: \$194,748
- FY18 Increment 3: \$314,150
- FY19 Increment 4: \$238,537

DD Form 1391, DEC 76