



NATIONAL SECURITY AGENCY CENTRAL SECURITY SERVICE FORT GEORGE G. MEADE, MARYLAND 20755-6000

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Groundbreaking Ceremony Held for \$1.2 Billion Utah Data Center

SALT LAKE CITY, Utah - The National Security Agency and the U.S. Army Corps of Engineers broke ground today on a \$1.2 billion data center at Camp W.G. Williams National Guard Post here. The massive, one million square-foot facility currently is the largest U.S. Department of Defense project in the nation.

"This will bring 5,000 to 10,000 new jobs during the construction and development phase," Sen. Orrin Hatch, R-Utah, said at the event. "Once completed, it will support 100 to 200 permanent, high-paid employees."

More than 200 personnel attended the ceremony, including Utah Lt. Gov. Greg Bell and other state and local representatives.

The data center will be a state-of-the-art facility designed to support the Intelligence Community's efforts to further strengthen and protect the nation's cyber security.

"In an era when our nation and its allies are increasingly dependent on the integrity of information and systems supported, transmitted, or stored in cyberspace, it is essential that that space is as resilient and secure as possible," said NSA Deputy Director John C. Inglis.

NSA is the executive agent for the Office of the Director of National Intelligence and will be the lead agency at the data center. The facility will assist various agencies, including the Department of Homeland Security, in protecting national security networks.

"There is a clear mandate for a public-private partnership - led on the government side by DHS - but supported by all elements of the U.S. government, to include federal, state and local organizations represented here today," Inglis added.

Brig. Gen. Peter A. DeLuca, commander of the North Atlantic Division of the U.S. Army

Corps of Engineers, attended the event and emphasized the teamwork necessary for a project of this size, and its importance.

"It is important for the Corps, our customer, and the nation," DeLuca said.

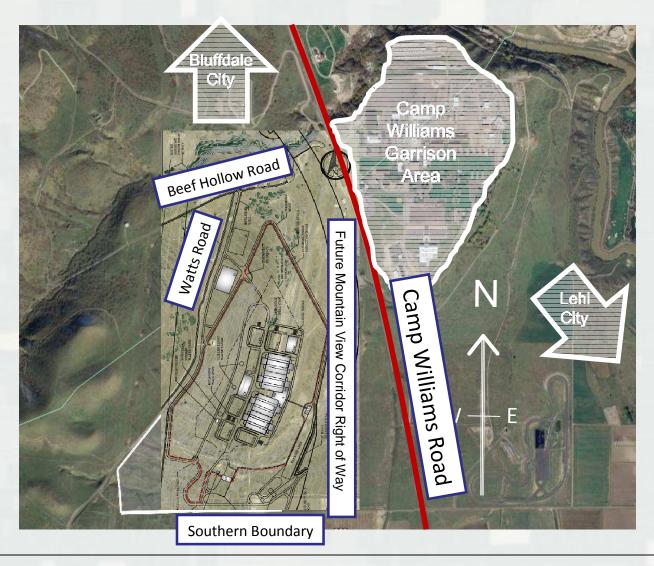
The U.S. Army Corps of Engineers is the construction agent responsible for handling the acquisition and contracting process, design management and review, and project management. Two Army Corps districts serve on the Utah Data Center project delivery team - the Baltimore and Sacramento districts.

For more information about the National Security Agency, please visit www.nsa.gov.

Defending Our Nation. Securing The Future.

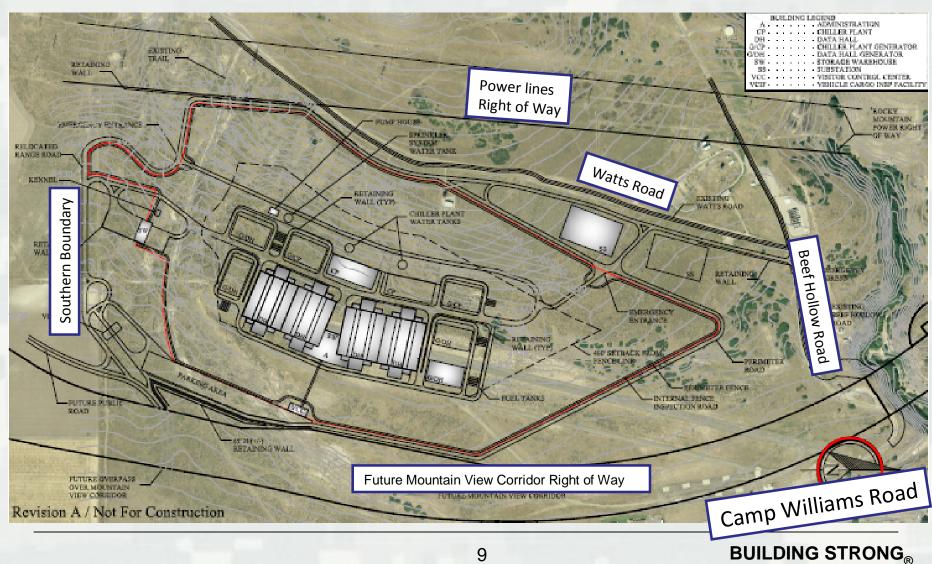
Defending Our Nation. Securing The Future.

Conceptual Site Layout

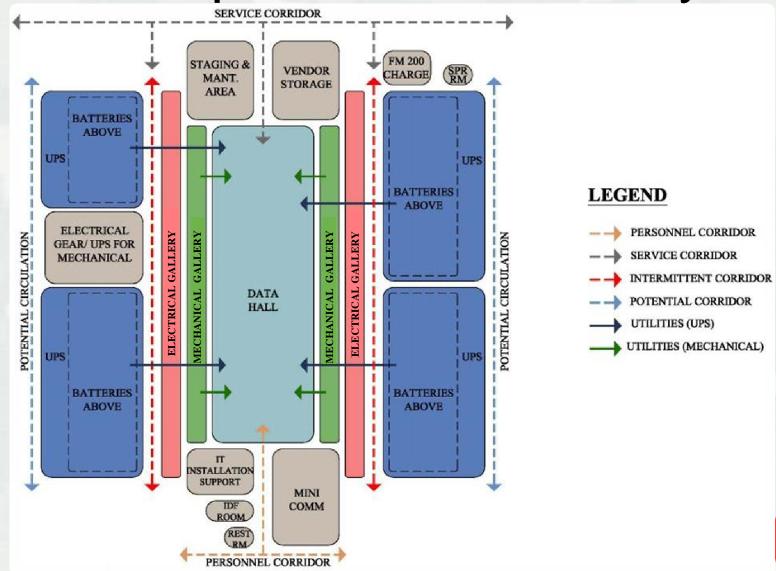




Conceptual Site Plan



Conceptual Data Hall Layout



CONTRACTS

ARMY

Balfour Beatty/DPR/Big-D, Salt Lake City, Utah, was awarded on Sept. 24 a \$479,000,000 firm-fixed-price construction contract for the Utah Data Center. The Utah Data Center is an Office of the Director of National Intelligence military construction project. The project will consist of building a data center and all associated ancillary requirements. Work is to be performed in Camp Williams, Utah, with an estimated completion date of Jan. 15, 2014. Bids were solicited on the World Wide Web with no bids received. U.S. Army Corps of Engineers, Baltimore District, Baltimore, Md., is the contracting activity (W912DR•10•C•0094)

UNCLASSIFIED

1. COMPONENT NSA/CSS DEFENSE	FY 2010 MILITARY CONSTRUCTION PROGRAM 2. DATE May 2009									
3. INSTALLATION AND LOCATION	ON 4. COMMAND					5. AREA CONSTRUCTION			CONSTRUCTION	
Camp Williams, Utah				NSA/CSS					COST INDEX 1.11	
6. PERSONNEL STRENGTH	PE	RMANE	NT	S	TUDENT	S		SUPPORTE	D	TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. AS OF 30 SEP 2007 b. END FY 2010 0 0			0	0	0 0	0	0	0	0	0
	7. INVENTORY DATA (\$000)								120	
A. TOTAL ACREAGE B. INVENTORY TOTAL AS OF 30 SEP 2007 C. AUTHORIZED NOT YET IN INVENTORY D. AUTHORIZATION REQUESTED IN THIS PROGRAM E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM F. PLANNED IN NEXT THREE YEARS G. REMAINING DEFICIENCY H. GRAND TOTAL 120 207,400 2121,500 200,000										
8. PROJECTS REQUESTED IN T CATEGORY PROJE		3RAM:					COST	Di	ESIGN	DESIGN
CODE NUME 141		<u>ER</u> <u>PROJECT TITLE</u> (\$000) <u>S</u>					TART Tov 08	COMPLETE Feb 10		
9. FUTURE PROJECTS:										
a. CATEGORY PROJE <u>CODE</u> <u>NUME</u> 141			PROJECT TITLE Utah Data Center- 35MW					COST (\$000) 800,000		
CATEGORY PROJE <u>CODE</u> <u>NUME</u>	PR()IF(I IIII F						COST 5000)			
10. MISSION OR MAJOR FUNCTION: NSA/CSS delivers responsive, reliable, effective, and expert Signals Intelligence and Information Assurance products and services, and enables Network Warfare operations to gain a decisive information advantage for the Nation and our allies under all circumstances.										
11. OUTSTANDING POLLUTION	N AND SA	AFETY DI	EFICIENC	CIES:						
D. AIR POLLUTION 0										
E.WATER POLLUTION			0							
F.OCCUPATIONAL SAFETY AND HEALTH						0				

DD Form 1390, DEC 76

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. Component	FV 2010 MII IT	ARY CONSTRUCTIO	2. Date		
NSA/CSS DEFENSE	F 1 2010 WILDIT	ART CONSTRUCTIO	May 2009		
3. Installation and Location Utah National Guard Facility, Camp Williams, Utah			4. Project Title Utah Data Center-30MW Phase 1		
Otali National Guard Pacinty, Camp williams, Otali			Otali Bata Celiter-30M W Thase 1		
		7. Project Number	8. Project Cost (\$000)		
	141		800,000		
0 COST ESTIMATES					

9. COST ESTIMATES						
Item	U/M	Quantity	Unit Cost	Cost (\$000)		
PRIMARY FACILITY Building Modular Shells Mechanical Electrical Building Enhancements Site Preparation Fire Protection Building Security (Antiterrorism/Force Protection) Communications Commissioning General Conditions	LS L			672,103 (28,774) (124,513) (340,266) (85,143) (17,442) (2,331) (10,006) (5,409) (18,360) (39,859)		
SUPPORTING FACILITIES Visitor Control Center/Perimeter Control Primary Electric Service Water, Sewer, and Gas Site Improvements Construction Security-Information Assurance	LS LS LS LS LS LS			48,715 (9,700) (23,500) (1,200) (9,515) (4,800)		
TOTAL CONTRUCTION COST Contingency (5%) SUBTOTAL SIOH (5.70%) Total Project Request TOTAL PROJECT COST (ROUNDED)				720,818 36,041 756,859 43,141 800,000		

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct 30 MW technical load data center to include modular structural components, finished flooring (both raised and administrative), ceiling, lighting, electrical, generators and associated air pollution control systems, mechanical, ventilation, and fire suppression. Also, these funds will provide utilities to include building electrical service, chilled water systems, communications, water, sanitary sewer and storm water management. Installed infrastructure will support 65MW technical load data center capacity for future expandability. The design is to be capable of Tier 3 reliability. Power density will be appropriate for current state-of-the- art high-performance computing devices and associated hardware architecture. U.S. Government and local support services will be provided. Security measures for this project include, but are not limited to a Visitor Control Center provided for data center personnel which is separate from the interim Visitor Control Center for construction personnel; perimeter security; and access control facilities. Physical and technical security of the construction site will be assured.

This project will be designed in accordance with the Uniform Federal Accessibility Standards (UFAS)/Americans with Disabilities Act (ADA) Accessibility Guidelines, Antiterrorism Force Protection (ATFP) standards and Unified Facilities Criteria (UFC) design standards.

UNCLASSIFIED

1. Component NSA/CSS DEFENSE	FY 2010 MILI	TARY CONSTRUCTION	2. Date May 2009		
3. Installation and Locati Utah National Guard Fac		s, Utah	4. Project Title Utah Data Center-30MW Phase 1		
5. Program Element	6. Category Code 141	7. Project Number	8. Project Cost (\$000) 800,000		

11. REQUIREMENT: 30 MW

ADEQUATE: None

SUBSTANDARD: None

PROJECT: Construct a 30 MW technical load data center and infrastructure for 65MW technical load data center capacity.

REQUIREMENT: This project is required to provide a 30MW technical load data center and infrastructure for 65MW technical load data center capacity to support mission. The project will include the following:

(1) Site

- (a) Facility design goal will be to the highest LEED standard attainable within available resources and will include: sustainable site characteristics, water and energy efficiency, materials and resources criteria, and indoor environmental quality.
- (b) Mechanical and electrical plants are to be housed in separate structures to prevent transfer of noise and vibrations to the data centers

(2) Facilities

- (a) Data center technical load of 30 MW distributed across raised floor are the design parameters for the facility.
- (b) The infrastructure support and administrative areas will be designed to support state-of-the-art high-performance computing devices and associated hardware architecture.
- (c) Slab floor loading of approximately 1500 pounds per square foot (PSF)
- (d) Enhancements to the building for IT and security include construction as a sensitive compartmented information facility (SCIF), as well as, requirements related to Antiterrorism Force Protection (ATFP).

(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 concrete slab construction with a load bearing capacity of 1500 pounds per square foot (PSF).
- (d) Facility command and control contained in a central modular office component.
- (e) Facility will have a loading dock with vehicle bays, three (3) of which are to be equipped with dock levelers sized to handle tractor trailers.

(4) Electrical

- (a) Technical load capacity is 30 MW with loads distributed evenly across the data center areas.
- (b) Supervisory Control and Data Acquisition (SCADA) to either PDU level or distribution panel level if required
- (c) Dedicated substation for each critical UPS.
- (d) UPS and generator backup for facility systems.
- (e) Generators will include Selective Catalytic Reduction (SCR) pollution control equipment, chemical storage tanks and feed system.

(5) Mechanical

- (a) Chilled water system to support both air and water cooled equipment.
- (b) Each data center area is to have air cooled and water cooled equipment with Computer Room Air Handlers (CRAHs) located external to the raised floor area. The piping headers / systems are to be designed to accommodate future expansion.
- (c) Back-up capability for mechanical equipment.
- (d) Cooling Towers
- (e) Air distribution redundancy for CRAHs.
- (f) Fire Protection Double interlocked pre-action fire protection system for all electrical and mechanical support spaces.
- (g) Wet pipe for administrative and raised floor areas per DOD standards.

(6) Security systems

- (a) Video surveillance
- (b) Intrusion detection
- (c) Access control system

DD Form 1391, DEC 76

PREVIOUS EDITIONS MAY BE USED

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1. Component NSA/CSS DEFENSE	FY 2010 MILI'	TARY CONSTRUCTION	2. Date May 2009				
3. Installation and Locati- Utah National Guard Fac		, Utah	4. Project Title Utah Data Center Phase 1				
5. Program Element 6. Category Code 7. Project Number 141			8. Project Cost (\$000) 800,000				
ADDITIONAL: This proincluded. All required er	ng capability exists at TIDED: mission requirements bject has been coordinationmental and ATI	will not be met without on the installation of	completion in the specified to the physical security plan, and the conomic analysis has to satisfy the requirement.	time frame. all physical security measures are s been prepared and utilized in			
12. SUPPLEMENTAL D (a) Status (i) Date Design Started (ii) Percent Completed (iii) Date Design Completed (iv) Type of Design Completed (b) Basis (i) Standard or Definit (ii) Date Design was M (c) Contract Award (d) Construction Start (e) Construction Completed	d d as of Feb 2009 pleted ontract: ive Design: Most Recently Used:		Nov 2003 35% Feb 2010 Integrate No N/A May 201 Jun 2010 Mar 201	od Design-Bid-Build 10			
			/s/				

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