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.
Conceptual Site Layout
Conceptual Site Plan
Conceptual Data Hall Layout
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)
1. COMPONENT
NSA/CSS
DEFENSE

2. DATE
May 2009

3. INSTALLATION AND LOCATION
Camp Williams, Utah

4. COMMAND
NSA/CSS

5. AREA CONSTRUCTION COST INDEX
1.11

6. PERSONNEL STRENGTH
<table>
<thead>
<tr>
<th>PERMANENT</th>
<th>STUDENTS</th>
<th>SUPPORTED</th>
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<tr>
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<td>OFF</td>
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<td>a. AS OF 30 SEP 2007</td>
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<td>0</td>
</tr>
<tr>
<td>b. END FY 2010</td>
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7. INVENTORY DATA ($000)
A. TOTAL ACREAGE
120
B. INVENTORY TOTAL AS OF 30 SEP 2007
207,400
C. AUTHORIZED NOT YET IN INVENTORY
121,500
D. AUTHORIZATION REQUESTED IN THIS PROGRAM
800,000
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM
800,000
F. PLANNED IN NEXT THREE YEARS
0
G. REMAINING DEFICIENCY
0
H. GRAND TOTAL
1,928,900

8. PROJECTS REQUESTED IN THIS PROGRAM:

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<thead>
<tr>
<th>CATEGORY</th>
<th>PROJECT</th>
<th>PROJECT TITLE</th>
<th>COST ($000)</th>
<th>DESIGN START</th>
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<tbody>
<tr>
<td>141</td>
<td>Utah Data Center-30MW</td>
<td>800,000</td>
<td>Nov 08</td>
<td>Feb 10</td>
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9. FUTURE PROJECTS:

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<table>
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<tr>
<th>CATEGORY</th>
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<th>PROJECT TITLE</th>
<th>COST ($000)</th>
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<table>
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<th>PROJECT</th>
<th>PROJECT TITLE</th>
<th>COST ($000)</th>
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<tbody>
<tr>
<td>None</td>
<td>None</td>
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</table>

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 AND SAFETY DEFICIENCIES:

D. AIR POLLUTION
0
E. WATER POLLUTION
0
F. OCCUPATIONAL SAFETY AND HEALTH
0
1. Component
NSA/CSS DEFENSE

2. Date
May 2009

3. Installation and Location
Utah National Guard Facility, Camp Williams, 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

9. COST ESTIMATES

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<thead>
<tr>
<th>Item</th>
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<th>Unit Cost</th>
<th>Cost ($000)</th>
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<td>PRIMARY FACILITY</td>
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<td>672,103</td>
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<tr>
<td>Electrical</td>
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<td>TOTAL CONSTRUCTION COST</td>
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<td>Contingency (5%)</td>
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<td>SUBTOTAL</td>
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<td>SIOH (5.70%)</td>
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<td>Total Project Request</td>
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<td></td>
<td>800,000</td>
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</table>

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.
<table>
<thead>
<tr>
<th>1. Component</th>
<th>2. Date</th>
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<tbody>
<tr>
<td>NSA/CSS DEFENSE</td>
<td>May 2009</td>
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<table>
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<tr>
<th>3. Installation and Location</th>
<th>4. Project Title</th>
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<tbody>
<tr>
<td>Utah National Guard Facility, Camp Williams, Utah</td>
<td>Utah Data Center-30MW Phase 1</td>
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<tbody>
<tr>
<td></td>
<td>141</td>
<td></td>
<td>800,000</td>
</tr>
</tbody>
</table>

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
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: This project has been coordinated with the installation physical security plan, and all physical security measures are included. All required environmental and ATFP measures are included. An economic analysis has been prepared and utilized in evaluating this project. This project is the most cost effective method to satisfy the requirement.

12. SUPPLEMENTAL DATA:
(a) Status
   (i) Date Design Started: Nov 2008
   (ii) Percent Completed as of Feb 2009: 35%
   (iii) Date Design Completed: Feb 2010
   (iv) Type of Design Contract: Integrated Design-Bid-Build

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

(c) Contract Award
   (ii) Contract Award: May 2010

(d) Construction Start
   (ii) Construction Start: Jun 2010

(e) Construction Complete
   (ii) Construction Complete: Mar 2013

/s/ Jeffrey P. Rutt, P.E.
Technical Director, I&L