

NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

7500 GEOINT Drive Springfield, Virginia 22150

NGA – 20100134F

September 30, 2011

Mr. Steven Aftergood Senior Research Analyst Federation of American Scientists 1725 DeSales Street NW, 6<sup>th</sup> Floor Washington, DC 20036

RE: Freedom of Information Act (FOIA) Request #20100134F- FY 2011`CBJB

Dear Mr. Aftergood:

Enclosed please find the clearly releasable, unclassified portion of the National Geospatial-Intelligence Agency's Congressional Budget Justification Book for Fiscal Year 2011, which is in two volumes-Book One and Book Two.

Throughout the documents, some information has been withheld as exempt from disclosure and release based upon the provisions of 5 U.S.C. § 552 (b)(1), which protects from release information that is currently and properly classified in the interests of national defense or foreign policy. Some information has also been exempted from release under Executive Order (EO) 13526 § 1.4(c), which protects from release information related to intelligence activities (including covert action), intelligence sources or methods, or cryptology. Information has also been withheld under E.O. 13526 § 1.4 (g), which protects from release information on the vulnerabilities or capabilities of systems, installations, infrastructures, projects, plans, or protection services relating to the national security. In addition, some information was withheld under FOIA Exemption (b)(3) which protects from release information exempted under another statute, in this case 10 U.S.C. § 424.

Per our telephone discussion in which you stated that you did not want to receive fully redacted pages, I have not included blank pages. I have, however, included a listing of those pages that were omitted. No fees have been charged for this request and we have closed this file.

Should you have any questions, please call me at 571-557-2987 or e-mail me at Helen.B.Chapman@nga.mil.

Sincerely,

AlenBrouxie Chapman

Helen Brownie Chapman FOIA Program Manager

Encl:

NGA – 20100134F (Aftergood)

Omitted Pages in FY 2011 Congressional Budget Justification Books

The following is a listing of the fully classified pages that were omitted from the released FY 2011 Congressional Justification Books. Per our telephone discussion, we agreed to omit fully classified pages since you were not interested in receiving blank pages. We did include the "THIS PAGE INTENTIONALLY LEFT BLANK" pages to ensure continuity of the page numbering.

#### FY 2011 Congressional Justification Book (Book One)

Omitted pages:

4, 7, 9-11, 13-14, 21-22, 25-26, 29, 31-36, 38, 40-44, 51, 55, 59, 63, 66, 68-79, 83-84, 85-87, 91-92, 94, 96-98, 100-101, 104-114, 116, 118, 121, 125, 128-129, 132, 134-139, 142-143, 145-151, 154-161, 164, 166-167, 168-173, 177, 185, 187-191, 192, 195, 197, 201-203, 209-210, 214-216, 218-219

FY 2011 Congressional Justification Book (Book Two)

Omitted pages:

225-243, 247-248, 250, 255-257, 262-263, 266, 270, 272, 275-277, 279-280, 288-289, 291, 297, 303, 306, 308-309, 314, 319, 328-330

National Intelligence Program



Booki Fy 2011

# FY 2011 Congressional Budget Justification

Volume XIII



National Geospatial-Intelligence Agency

February 2010

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#### (U) PROGRAM OVERVIEW

### (U) Description

(U) The National Geospatial-Intelligence Program (NGP) brings unique core capabilities to bear in support of national security objectives by:

• (U//FOUO) Providing actionable GEOINT analysis and indications and warning (I&W) to policymakers and mission partners across the US and allied intelligence communities.

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• (U//FOUO) Ensuring access to GEOINT products, tools, and services via a worldwide TPED architecture that supports US intelligence centers, COCOMs, operational forces in the field, and other national, civil, and allied mission partners.

• (U//FOUO) Providing functional management of US GEOINT efforts, to include developing doctrine, policy, and directives for the National System for Geospatial-Intelligence (NSG); defining IC geospatial data standards; and educating and training GEOINT analysts across the US intelligence, DoD, and allied communities.

• (U//FOUO) Developing innovative GEOINT technologies to improve analytical tools and techniques, support the defeat of hard targets, and provide the GEOINT technology edge to the US and our allies. (U//FOUO) GEOINT products funded under the NGP include imagery, geospatial data, advanced geospatial intelligence (AGI) analysis, long-term broad area search analysis, and unique finished products tailored to national, defense, and domestic user requirements. GEOINT supports critical strategic missions such as global CP, CT, and CI efforts and responses to regional developments that threaten US interests worldwide. NGP products satisfy a growing national and international need for imagery and geospatial applications that support mission planning, mapping, environmental monitoring, urban planning, treaty monitoring, safe navigation, management of natural resources, homeland defense planning, emergency preparedness, and responses to natural and manmade disasters worldwide.

### (U) Strategic Direction

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(U) Enable Wise National Security Policies and Support Effective National Security Action

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(U) Deliver Balanced and Improving Capabilities

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• (U//FOUO) Tailored training for GEOINT professionals worldwide to enable analysts and source managers to use emerging GEOINT sources, methods, and technologies.

• (U//FOUO) Integration of GEOINT analysts with the broader IC analytic community to build a body of analysts able to work in a dynamic mission-driven, multi-INT environment.

• (U//FOUO) Recruitment, training, and mentoring programs to attract, challenge, and retain the highest quality GEOINT workforce.

• (U//FOUO) Consolidation of NGA east coast operations at the NCE to improve analytic collaboration.

#### (U) Operate as a Single Integrated Team

(U//FOUO) The NGP continues its history of robust collaboration across the IC and allied communities. The NGP will continue to:

• (U//FOUO) Support the DNI mission managers as the IC strives to mitigate new and enduring national security challenges.

• (U//FOUO) Support ODNI enterprise management efforts to integrate critical IC enabling activities such as TPED architecture, enterprise management and financial systems, research and technology, education and training, and human capital management.

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• (U//FOUO) Embed NGP personnel in mission partner organizations to ensure collaboration early in the intelligence collection and analysis cycle.

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• (U//FOUO) Assure access to GEOINT products and data for mission partners worldwide, while transitioning legacy data center systems to common standards in preparation for the migration to consolidated IC data centers.

• (U//FOUO) Participate in the IC joint duty assignments program.

• (U//FOUO) Provide specialized intelligence training in accordance with guidance from the National Intelligence University.

### (U) Conclusion

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(U//FOUO) The NGP FY 2011 request, in concert with the FY 2009 Agency Financial Reports provided in November 2009, and ODNI's *FY 2009 NIP Summary of Performance and Financial Information*, dated February 2010, meets the FY 2009 annual performance and accountability requirement for the IC. The NGP is committed to demonstrating that resources produce measurable results. Relationships among resources, performance expectations, and performance results are highlighted throughout the request.

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### (U) Budget Request Highlights

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#### (U) New Initiatives:

The NGP has no new initiatives.

(U) Changes from FY 2010 to FY 2011:

(U) The FY 2011 request reflects changes in the following:

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• (U//FOUO) Facilities and Logistics EC, Facilities Project: -\$284.0 million, nonrecurring. Decrease due to the scheduled completion of NCE construction, IT installation, and certification and accreditation.

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### (U) Management Oversight

(U) Management oversight for the NGP is provided by:

- (U) Office of Management and Budget
- (U) Office of the Director of National Intelligence
- (U) Office of the Secretary of Defense

(U) Funding for National Intelligence Strategy Mission Objectives

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### (U) FY 2011 Workforce Highlights

(U//FOUO) The NGP continues to strengthen its core mission areas to keep pace with worldwide threats to US national interests and to maintain support for global CT efforts and operations in Afghanistan and Iraq. The NGP will focus GEOINT analytical tradecraft, AGI tools and techniques, and GEOINT source strategies against the hardest intelligence targets in accordance with ODNI and DoD priorities.

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(U) NGP Summary of Planned Workforce Changes

(U) NGP Requested Workforce Changes

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(U//FOUO) The NGA Strategic Workforce Plan (SWP) calls for a systemic increase in the Agency's analytic breadth; scientific and technical depth; use of multidisciplinary teams; and agility to strategically transform the workforce to meet future mission requirements, respond more effectively to dynamic threats, optimize limited resources, and evolve new capabilities.

(U//FOUO) NGA's workforce excellence program—a five-year human capital strategic plan established in 2007—lays out a course of specific actions to accomplish through 2011. The plan supports three goals, (1) a mission-ready workforce, (2) a leadership corps that is engaged in and responsible for the continued development of the workforce, and (3) an NGA employee value proposition that reflects a work environment committed to individual growth and mission performance. The NGP is implementing the actions reflected in the plan to ensure the Agency has the right people, at the right time, and in the right place for mission success.

(U//FOUO) The NGP has embraced the concepts of Joint Duty established in Intelligence Community Directive (ICD) 601. At the end of FY 2009, approximately 1,500 NGA personnel had joint duty experience.

**(U) NGP Employment Demographics** 

(U) Workforce Infrastructure and Support

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(U//FOUO) The NGA SWP underscores workforce capability in critical risk areas impacted by attrition. The coming wave of retirement—combined with immediate impacts from the move to the NCE—presents significant risks that the program will lose valuable institutional knowledge and critical skills and capability. NGA is implementing attrition mitigation risk strategies for eight key tradecraft areas identified in the SWP.

(U//FOUO) NGP also continues to address infrastructure shortfalls at the St. Louis and Arnold, MO, facilities and is outfitting a new data center at the Arnold facility to ensure continuity of all critical NSG operations during the transition to the NCE. THIS PAGE INTENTIONALLY LEFT BLANK

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### (U) EXPENDITURE CENTER PERFORMANCE SUMMARY: MISSION MANAGEMENT / TASKING (CONTINUED)

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### (U) EXPENDITURE CENTER PERFORMANCE SUMMARY: MISSION MANAGEMENT / TASKING (CONTINUED)

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### (U) MISSION MANAGEMENT/TASKING (U) SOURCE ASSESSMENT AND EARTH REFERENCE MODEL (ERM)

### (U) Project Description

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(U//FOUO) Source Assessment and Earth Reference Model (ERM) Project resources enable seamless, accurate, geodetic measurements of the earth's surface for all National System for Geospatial-Intelligence (NSG) geospatial accuracy requirements to support mission partner and national security objectives. The ERM consists of four levels of data density (global, regional, local, and specialized) and seven data domains, five of which are funded in the NIP to include feature data, terrain elevation data, controlled stereo imagery data, controlled mono imagery data, and geodesy and geophysical data. The remaining two (aero and maritime) are funded in the MIP. NGA uses non-imagery and geospatial data to provide the underlying 3-D navigation, positioning, and targeting information for national, DoD, and IC mission partner operations.

(U) Resources in this project are used to:

• (U//FOUO) Perform geodetic, geophysical, and geotechnical analysis such as gravity measurements, soil characteristics, and infrared signatures for geological features.

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• (U//FOUO) Acquire and maintain geospatial data sets to satisfy global climate change requirements.

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• (U//FOUO) Assess imagery quality and, where applicable, produce stereo pairs for photogrammetric analysis, elevation data, and controlled imagery. The assessment process makes imagery source material more readily exploitable by analysts, leading to faster satisfaction of mission partner requirements.

• (U//FOUO) Provide research, materials, services, and tools for NSG access to GEOINT references; and open source information to support both NGA personnel and external mission partners.

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(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Continue satellite/navigation commodity acquisitions and maintenance to improve feature readiness and augment holdings in high-priority countries at the local and specialized density levels.

• (U//FOUO) Initiate the production of tactical pilotage charts (TPC), which are high-priority products for the aviation community. Also, provide joint operation graphics over priority areas made with commodity, open source, and NGA data layers.

• (U//FOUO) Continue to upgrade and maintain the NGA commodity data set at the global density level to improve feature data readiness for the production of TPCs. (NGP\_00616)

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• (U//FOUO) Collect additional gravity data in deficient areas to improve the 'deflection of the vertical' product required for various USAF platforms.

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• (U) Deliver both geospatial and non-geospatial open source data capability for development of GEOINT products.

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(U) This project is funded jointly in the NIP and the MIP. Refer to MIP CJB Volume VI. The following sections address only NIP-funded activities.

(U) Changes from FY 2010 to FY 2011:



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### (U) MISSION MANAGEMENT/TASKING (U) SOURCE TASKING, OPERATIONS, AND MANAGEMENT

(U) Project Description

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• (U//FOUO) Provide technical expertise for the integration of new sources and techniques into the NSG operational framework. This includes ensuring subject matter expertise for the GEOINT Functional Manager to integrate next generation sensor/system collection capabilities across the GEOINT enterprise, including airborne and overhead persistent infrared (OPIR).

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(U) Resources in this project are used to:

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• (U//FOUO) Sustain the GEOINT Committee (GEOCOM). The GEOCOM is an IC-wide committee designed to conduct evaluations of cross-functional capabilities, review and assess long-term strategies for tasking, collection, processing, exploitation, and dissemination (TCPED) of GEOINT, address matters of international policy, and provide informed perspectives and recommendations on future capabilities to the Source Functional Manager as mandated by Intelligence Community Directive 113.

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(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Increase the deployment of source strategies analysts to NGA Support Teams (NSTs) embedded with mission partners at COCOMs and service intelligence centers.

• (U//FOUO) Increase multi-source strategy implementation of NGA's time dominant operations enterprise on critical issues of interest to the IC. (NGP 00612, NGP 00615)

• (U//FOUO) Enhance use of meteorological information in source strategy development and performance analysis.

• (U//FOUO) Improve the same day operational imagery flow into high current interest missions.

• (U//FOUO) Sustain the Source Capability Manager process that enables NSG leadership to more effectively anticipate, assess, and analyze risks associated with changing GEOINT collection capability in order to ensure the appropriate actions are taken to provide balanced and consistent availability of imagery data to the NSG.

#### (U) Changes from FY 2010 to FY 2011:

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### (U) MISSION MANAGEMENT/TASKING (U) MISSION READINESS

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(U) Project Description

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(U) Resources in this project are used to:

• (U) Enable the NGA Director of Military Support to facilitate interaction between the Services and NGA.

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• (U) Advocate Service GEOINT needs to NGA and promote NSG transformation plans to the Services.

• (U) Incorporate GEOINT activities into Service training curricula.

• (U) Support major deploying forces with GEOINT expertise during operational phases.

• (U) Provide value-added presence at major Service locations and represent NGA at Service GEOINT forums.

• (U) Synchronize and integrate NGA participation in Chairman of the Joint Chiefs of Staff (CJCS), national, and Service pre-deployment exercises; and evaluate emerging exercise support opportunities. This is the primary mechanism to provide GEOINT training to individuals, staffs, and Service units to effectively "Train as We Fight" and greatly impact a combatant commander's ability to leverage GEOINT solutions to assigned missions.

• (U) Coordinate NGA contributions to DoD readiness assessment programs and Joint Strategic Capabilities Plans.

• (U) Conduct NGA-wide assessments of operational readiness to support DoD missions.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U) Sustain the current effort of on-site GEOINT support and pre-deployment GEOINT training for deploying military forces and extend integrated on-site pre-deployment training to additional locations. This training increases the proficiency of the deployed military analysts and equips them to better integrate NGA's capabilities into strategic planning and operational decision processes.

• (U) Sustain integrated on-site GEOINT support to the three Army Corps' Headquarters and extend on-site GEOINT pre-deployment training to six CONUS US Army divisions. These on-site employees provide direct analytical, production, training, policy, and technical support to the Army's GEOINT cells.

• (U) Sustain integrated on-site GEOINT to Chief of Naval Operations Staff (N2, N6), Commander US Fleet Forces, Commander 3<sup>rd</sup> Fleet Headquarters, and Naval Strike and Air Warfare Center. MR's Navy Fleet Support Branch is aligning itself with the Navy's Afloat Intel Systems Intermediate Training implementation strategy to improve the delivery of Navy mission-specific GEOINT training. NGA also will improve GEOINT governance and functional management for critical afloat combat systems such as Joint Mission Planning System, Common Ground Station, and Joint Services Workstation. This mission partnership enhances GEOINT awareness and exploitation among Navy warfighters preparing for deployment and ensures that Navy fleet operators have timely access to GEOINT products and can leverage GEOINT in afloat systems and TCPED processes. • (U) Sustain integrated on-site GEOINT to three CONUS US Marine Corps expeditionary force headquarters and systems commands, as well as training to increase the proficiency of the deployed military analysts and equip them to better integrate NGA's capabilities into operational decision processes.

• (U) Sustain integrated on-site GEOINT support to the Air Force Targeting Center, Air Combat Command, Air Education and Training Center, the Air Force Warfare Center, and the Air Force ISR Agency. NGA also educates USAF students at the Air Force Intelligence School on available GEOINT products, services, training, and transformational efforts. These efforts maximize the contribution of GEOINT to the USAF by familiarizing new airmen with GEOINT, and establishing a program for incremental, career-long GEOINT training across all appropriate Air Force specialty codes.

• (U) Manage NGA participation in CJCS, national, and Service pre-deployment exercise programs; access NGA's ability to perform and identify actual/potential challenges.

• (U) Prepare and integrate GEOINT functional support plans into Joint Strategic Capabilities Plans by identifying specific NGA activities, capabilities, and shortfall solutions required in the conduct of the Agency's DoD responsibilities.

(U) Changes from FY 2010 to FY 2011:

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### (U) EXPENDITURE CENTER PERFORMANCE. SUMMARY: COMMERCIAL REMOTE SENSING

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(U) EXPENDITURE CENTER PERFORMANCE SUMMARY: COMMERCIAL REMOTE SENSING (CONTINUED)

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### (U) EXPENDITURE CENTER PERFORMANCE SUMMARY: COMMERCIAL REMOTE SENSING (CONTINUED)

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(U) EXPENDITURE CENTER PERFORMANCE SUMMARY: COMMERCIAL REMOTE SENSING (CONTINUED)

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### (U) COMMERCIAL REMOTE SENSING (U) PURCHASES

### **(U) Project Description**

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(U//FOUO) Purchases Project resources provide for the acquisition of commercial remote sensing data and derived products to support a wide range of geospatial information requirements for the IC, DoD, coalition mission partners, and other federal, state, and local agencies. These resources enable the purchase of commercial data and information (such as imagery and imagery-derived products) as well as license upgrades. Commercial imagery substantially improves US geospatial readiness and responsiveness. NGA is designated as the agency of primary responsibility for acquiring and disseminating commercial data products and services for all national security requirements and, in consultation with the US State Department, all foreign policy requirements.

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(U) Resources in this project are used to:

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• (U//FOUO) Support federal and local humanitarian relief operations, upon request from DHS, during domestic natural and manmade disasters. Unclassified commercial imagery enables NGA to disseminate GEOINT products to first responders and provide information critical to disaster preparation and response operations.

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### (U) COMMERCIAL REMOTE SENSING (U) MISSION SUPPORT

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#### (U) Project Description

(U//FOUO) Mission Support Project resources provide for the oversight, administration, operation, and maintenance of the Commercial Remote Sensing (CRS) Program.

(U) Resources in this project are used to:

• (U//FOUO) Provide program management, strategy development, integration, customer support and policy support for NGA's commercial imagery interface with the IC, DoD, civil, and commercial industry communities.

• (U//FOUO) Provide requirements management and tasking support for the acquisition of commercial data products including imagery and licenses in support of NGA and mission partner requirements.

• (U//FOUO) Provide technical and analytical services and performance measures to ensure quality of commercial imagery and improve the integration of commercial imagery into the National System for Geospatial-Intelligence (NSG) exploitation processes.

• (U//FOUO) Provide support and service for the reception, dissemination, and archiving of commercial imagery and derived products.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Implement NGA's commercial imagery strategy to assure increased access to commercial imagery and user-friendly GEOINT products in support of DoD and IC requirements.

• (U//FOUO) Accelerate commercial imagery integration into the NSG (NGP 00489, NGP 00602)

(U) Changes from FY 2010 to FY 2011:

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### (U) EXPENDITURE CENTER PERFORMANCE SUMMARY: MISSION PROCESSING & EXPLOITATION

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### (U) EXPENDITURE CENTER PERFORMANCE SUMMARY: MISSION PROCESSING & EXPLOITATION (CONTINUED)

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(U) EXPENDITURE CENTER PERFORMANCE SUMMARY: MISSION PROCESSING & EXPLOITATION (CONTINUED)

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### (U) EXPENDITURE CENTER PERFORMANCE SUMMARY: MISSION PROCESSING & EXPLOITATION (CONTINUED)

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### (U) MISSION PROCESSING AND EXPLOITATION (U) NSG OPERATIONAL SYSTEMS

### (U) Project Description

(U) National System for Geospatial-Intelligence (NSG) Operational Systems Project resources provide for the sustainment of the baseline operational architecture for the NSG. Resources support software maintenance, hardware recapitalization, and minor modifications to maintain current operational capability for system elements including analyst workstations, libraries, and dissemination systems. Major systems acquisitions for the NSG such as NSG Block II and the Saint Louis Information Library (STIL) build upon the architectural foundation maintained by this project. Efforts funded under this project are critical to the mission continuity of GEOINT information management services; dissemination and storage; and exploitation capabilities as NGA transitions to the New Campus East (NCE) in FY 2011.

(U) Resources in this project are used to:

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• (U//FOUO) Transition NGA mission systems from sites closed by the 2005 BRAC legislation to the NCE.

(U) The NGP expects the project to accomplish the following in FY 2011:

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• (U//FOUO) Complete the transition of NGA systems to the NCE and the Interim Transition Capability pursuant to the 2005 BRAC legislation mandates.

• (U//FOUO) Continue sustainment of softcopy exploitation capability, softcopy imagery search environment, and automatic product generation capability.

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• (U//FOUO) Continue maintenance and sustainment of baseline NSG architecture capability. (NGP\_00638, NGP\_00639)

(U) Changes from FY 2010 to FY 2011:

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# (U) MISSION PROCESSING AND EXPLOITATION (U) NSG SYSTEMS ENGINEERING

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## (U) Project Description

(U//FOUO) NSG Systems Engineering Project resources provide engineering services across the NSG enterprise, including engineering development activities for GEOINT production systems and corporate management systems. Project activities are divided into two categories: Enterprise Engineering (EE) and System Integration (SI).

(U//FOUO) EE resources are focused on enterprise management efforts such as scheduling, requirements, and test/evaluation planning. EE resources support NSG source integration, NSG architecture and standards, and NGA systems engineering.

(U//FOUO) SI resources enable overarching system integration activities that support both the current and future NSG architecture. These resources ensure that NSG component systems perform efficiently and function as a system of systems.

(U) Resources in this project are used to:

• (U//FOUO) Provide NSG systems engineering crucial to the successful deployment of NGA's complex mission systems to the NCE.

• (U//FOUO) Operate and maintain a robust Integrated Test Facility (ITF) to test and evaluate NSG enterprise software and hardware systems.

• (U//FOUO) Execute an efficient configuration management process and maintain an integrated master schedule for the development and deployment of NSG systems.

• (U//FOUO) Provide systems integration and initialization support, as well as integration of source tasking and workflow management capabilities.

• (U) Implement systems and software engineering process improvements enterprise-wide.

• (U) Provide systems and customer requirements support for NSG development and fielding.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Continue providing NSG systems engineering to support the successful deployment of NGA's mission systems to the NCE.

• (U//FOUO) Continue providing core enterprise engineering and system integration services to assure timely accomplishments of the program baseline. (NGP\_00641)

• (U//FOUO) Continue providing integrated test services for newly developed, upgraded, or modified NSG systems prior to deployment. (NGP\_00642)

(U) Changes from FY 2010 to FY 2011:

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# (U) MISSION PROCESSING AND EXPLOITATION (U) NSG INTEGRATED ARCHITECTURE SERVICES

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#### (U) Resources in this project are used to:

• (U//FOUO) Support Advanced Geospatial Intelligence (AGI) Exploitation Services (AES) activities, which develop advanced GEOINT exploitation tools. AES provides the unique ability to process data without regard to sensor type by using sensor models and characterization, and corrections for collection geometries.

• (U//FOUO) Support GEOINT access activities, which provide mission partners the capability to access GEOINT through a single interface. GEOINT access includes the people, processes, technologies, and data that enable internal and external NGA users

and partners to discover, receive, tag, store, and share GEOINT data, products, and services. Major GEOINT access efforts funded in this project include:

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— (U//FOUO) Development of Net-centric GEOINT Discovery Services (NGDS) that provide NGA users and customers with timely access to geospatial products and services—including near-real-time access to operational systems—as well as data from historical archives. NGDS enables customers to rapidly integrate information from disparate data sources.

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— (U//FOUO) Development of GEOINT Visualization Services (GVS) that enable users to define needs and visualize results in 3-D context. GVS tools aggregate seemingly divergent and unrelated data from multiple databases into a single collection that can be viewed in 3-D.

--- (U//FOUO) Development of enterprise Product on Demand Services (ePODS), which give NGA users access to the digital output of numerous NGA products. ePODS provides users the ability to leverage the latest NGA data and produce maps and charts that are print ready.

--- (U//FOUO) Development of the Topographic Features Data Management (TFDM) system, which is a COTS-based capability providing topographic feature data storage, maintenance, publishing, and product generation.

(U) The NGP expects the project to accomplish the following in FY 2011:

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• (U//FOUO) Continue spiral development of hardware and software enhancements for CASi and ePODS.

• (U//FOUO) Further expand the capability of GVS with the development of: analytical tools; access to dynamic data from existing and planned services; and the ability to publish visualization products into community of interest-organized encyclopedias via wiki/blog publishing services.

• (U//FOUO) Complete fielding of the TFDM system.

(U) Changes from FY 2010 to FY 2011:

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# (U) MISSION PROCESSING AND EXPLOITATION (U) NSG SENSOR INTEGRATION

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# **(U) Project Description**

• (U//FOUO) Commercial remote sensing (CRS) TPED, including the operational improvement and migration of the current CRS data infrastructure into the overarching NSG enterprise architecture.

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(U) Resources in this project are used to:

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• (U//FOUO) Improve the NSG architecture to support increased commercial imagery volumes and throughput; and improve GEOINT commercial data accessibility.

• (U//FOUO) Improve both the NSG and commercial architectures by supporting enhancements that will enable secure tasking of commercial imagery. (U) The NGP expects the project to accomplish the following in FY 2011:

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• (U//FOUO) Expand upon existing CRS capabilities to facilitate integrating commercial data into the NSG.

• (U//FOUO) Improve utility of, and user access to, CRS data by providing enhancements that will significantly improve customer discovery and retrieval of commercial imagery.

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(U) Changes from FY 2010 to FY 2011:

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# (U) MISSION PROCESSING AND EXPLOITATION (U) SAINT LOUIS INFORMATION LIBRARY (STIL)

# (U) Project Description

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(U//FOUO) STIL Project resources provide the foundation for NGA's GKB. The GKB will provide an interconnected group of data holdings and services for knowledge management and data mining. The primary objective of the STIL program is the transformation of existing dissimilar and geographically dispersed GEOINT library and data storage elements into a homogenous, net-centric, and data-centric operations platform. The STIL program, which is located at NGA's Missouri facilities, encompasses all facets of current and future NSG data storage and dissemination operations.

(U//FOUO) The BRAC legislation mandate to consolidate NGA's Washington DC-area facilities to the NCE in FY 2011 is the key driver for the STIL development schedule. NGA completed the transition of the Mapping, Charting, and Geodesy (MC&G) Information Library, the Imagery Analyst Command Information Library, the MC&G Media Generation System, and the Unclassified NIL to the STIL in October 2009 to ensure mission continuity during the move. NGA also plans to migrate airborne tactical imagery (still and motion) from the Secret/Collateral NIL to the STIL during the post-NCE transition timeframe.

(U) Resources in this project are used to:

• (U//FOUO) Support the three major components of the STIL acquisition: 1) physical racks, hard drives, and infrastructure; 2) software development to include development of a common database structure to harmonize, synchronize, and (where possible) standardize the holdings; and 3) the relocation of the imagery and support data holdings from their current locations to the STIL.

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• (U//FOUO) Address STIL Phases 2-4, which will incrementally develop, deliver, and sustain initial operational capabilities that fit into a SOA and meet the evolving NSG requirements for ingesting, processing, storing, and disseminating GEOINT information. Phase 2 and Phase 3 achieved initial operational capability (IOC) in May 2009 and December 2009, respectively. The contract vehicle for the STIL Phases 2-4 acquisition is a competitively awarded, cost plus award fee contract with performance-based incentives. Phase 1 was completed as a separate initiative, and consisted of a series of engineering and proof-of-concept storage initiatives that resulted in an initial data center capability and defined the requirements for the later phases.

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# (U) MISSION PROCESSING AND EXPLOITATION (U) NSG ENTERPRISE MODERNIZATION

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## **(U)** Project Description

(U//FOUO) NSG Enterprise Modernization Project resources enable the transformation of the NSG architecture from a stove-piped architecture to a sensor- and platform-neutral architecture as defined in the NSG Block II Capability Development Document. This multi-year modernization effort is essential to NGA's ability to efficiently task GEOINT collection assets, including NTM and an expanding set of commercial and airborne sources. There are two primary increments for this NSG effort: Source management and tasking (Resource Tasking Marketplace (RTM) 2), and analysis and production management (RTM3). NGA coordinates this transformation effort with other IC programs to optimize GEOINT collection capabilities in support of national and DoD priorities. (  $\bigcirc$ ) (4)

(U) Resources in this project are used to:

• (U//FOUO) Deliver capabilities that will significantly change and modernize the user interface and tool set for the GEOINT source and production management process. Analysts will no longer be limited to choosing a single source from which to solve an intelligence problem. Source tasking will be optimized and aligned to each intelligence problem—based on the best practices and strategies developed and selected by source analysts—to ensure the most efficient application of collection resources. This modernized sensorand platform-neutral architecture also will allow NGA to more effectively accommodate new vehicles and sensors from mission partners, including the increasing presence of UAVs and the growing use of data (b) (44)

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• (U) Deliver capabilities for source tasking and management (RTM2) that enable the retirement of the Requirements Management System (RMS). These capabilities will provide the most significant change in the imagery collection community since the transition to RMS over ten years ago. Once delivered, user requests for information and online status tracking will be automated. New capabilities will include an integrated collection management capability for national, airborne, and commercial GEOINT sensors.

• (U) Develop capabilities that focus on analysis and production management functionality (RTM3) and the retirement of stovepipe production management systems. These capabilities will enable legacy production systems—including NES, IESS, and PMAA—to be retired and replaced with flexible production management capabilities that support varying user missions.

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# (U) ANALYSIS(U) REGIONAL

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# (U) Project Description

(U//FOUO) Regional Project resources provide for GEOINT analysis and production focused on the nation's most pressing intelligence issues related to specific countries and activities in the geographic regions of the world. Project resources support the delivery of GEOINT products and services to national policymakers, military decisionmakers, DoD and IC operational forces, IC analysts, domestic agencies, and international organizations, allies, and coalition partners.

(b)(3) 10 MSC 56C 424

(U) Resources in this project are used to:

• (U) Provide regional crisis support.

• (U//FOUO) Support to arms control and treaty monitoring efforts.

• (U//FOUO) Accomplish in-depth research on a range of GEOINT issues, including foreign military capabilities, operations, and intentions for the Americas, Asia-Pacific, Central and Southwest Asia, and Eurasia and Africa regions.

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• (U) Support to global US and international humanitarian operations at the direction of the US Department of State (DOS).

• (U) Provide dedicated production support for all NGA analytic operations, to include specialized graphics production, editorial services, and quality control assistance for final GEOINT product dissemination.

• (U) Provide centralized operations support services for all NGA analysts, to include: PCS and travel funding; co-production agreement funding and support services for analysts participating in

foreign GEOINT production sharing activities; centralized guidance to ensure a balanced analytic focus; and a tradecraft office to strengthen GEOINT expertise, methods, and practice.

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(U) Changes from FY 2010 to FY 2011:

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# (U) ANALYSIS (U) TRANSNATIONAL

(U) Project Description

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• (U//FOUO) Produce assessments of environmental and natural resource issues that may affect the political or economic stability of regions or states, or the safety of US troop deployments.

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(U) Resources in this project are used to:

• (U//FOUO) Conduct CT analysis and operations support.

• (U//FOUO) Support CP and counter-WMD efforts.

• (U//FOUO) Support arms control efforts.

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(U) ANALYSIS (U) ADVANCED GEOSPATIAL INTELLIGENCE (AGI) ANALYSIS

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**(U) Project Description** 

(U//FOUO) Resources in this project are used to:

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• (U//FOUO) Provide functional and program management of NGP-funded AGI analysis and production programs.

• (U//FOUO) Conduct processing, exploitation, and dissemination of OPIR to generate integrated GEOINT products and services.

• (U//FOUO) Deliver integrated GEOINT products and services within NASIC in support of intelligence, national policymakers, and force modernization communities.

( b)(3) 10 USC SEE 424

• (U//FOUO) Provide GEOINT products and services within the Army's national-to-theater (NTT) program, to include military intelligence brigades and the National Ground Intelligence Center for time-dominant ground force issues in support of COCOMs, national policymakers, and force modernization communities.

• (U//FOUO) Provide integrated GEOINT products and services within the Office of Naval Intelligence (ONI) and the Naval Oceanographic Office (NAVO) focused on maritime domain awareness in support of intelligence, national policymakers, and force modernization communities.

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(U) Changes from FY 2010 to FY 2011:

• (U//FOUO) Deliver integrated GEOINT products and services within the Marine Corps Intelligence Activity (MCIA) focused on supporting Marine expeditionary forces worldwide.

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# (U) ANALYSIS (U) DEPLOYED OPERATIONS

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#### (U) Project Description

(U//FOUO) Deployed Operations Project resources enable NGA to support its forward-deployed presence at mission partner sites outside of the main NGA facilities in the Washington, DC and Saint Louis, MO metropolitan areas. (b)(3) / o 4/5c

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(U) Resources in this project are used to:

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• (U//FOUO) Provide a single focal point to enable efficient management of NGA's deployment program.

• (U//FOUO) Satisfy NGA authorized deployment requirements from external mission partners to execute GEOINT operations and provide expeditionary GEOINT support to crisis and contingency missions worldwide.

• (U//FOUO) Plan, deploy, and sustain GEOINT capabilities for military and civilian expeditionary and crisis operations worldwide.

• (U//FOUO) Facilitate and provide specialized readiness training and preparation of personnel preparing for OCONUS contingency and crisis deployments.

• (U//FOUO) Ensure that deployed personnel have appropriate systems and equipment for their assigned operational areas.

• (U//FOUO) Determine the composition of teams and systems to provide tailored on-site geospatial information products and services to best meet mission requirements.

• (U//FOUO) Operate and deploy two Domestic Mobile Integrated GEOINT Systems, which support federal, state, and local government agencies during domestic crises and National Special Security Events by delivering accurate, customized, mission-specific GEOINT products and services directly to the operational area.

# (U) ANALYSIS -(U) HOMELAND SECURITY

### (U) Project Description

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(U//FOUO) Primary mission partners include the DHS, DoD, and DOJ. Within the DoD, NGA directly supports USNORTHCOM and USJFCOM and collaborates with all of the Service intelligence centers in their HLD missions. Within DHS, NGA provides direct support to the Federal Emergency Management Agency (FEMA), the Customs and Border Protection Agency, the Secret Service, the Bureau of Immigration and Customs Enforcement, the DHS Intelligence Center, and the HLS Operations Center. NGA also supports the Department of the Interior, FBI, and other federal agencies in their HLS missions. (U) Resources in this project are used to:

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• (U//FOUO) Provide GEOINT analyses and assessments to DHS and the FBI in support of border security; and in response to transnational criminal activities such as human or drug smuggling.

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• (U//FOUO) Provide GEOINT analyses and damage assessments through FEMA to support consequence management and long-term recovery following a domestic disaster.

• (U//FOUO) Provide highly specialized data related to critical infrastructure and key resources for US urban areas at both national and local levels of detail.

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(U) ANALYSIS (U) WARNING

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# (U) Project Description

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(U) Resources in this project are used to:

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(U) ANALYSIS (U) INTERNATIONAL OPERATIONS

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(U) Project Description

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(U) Resources in this project are used to:

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# (U) ANALYSIS (U) ANALYTIC INTEGRITY AND STANDARDS

# (U) Project Description

(U//FOUO) Analytic Integrity and Standards Project resources provide NGA support to the ODNI to establish IC standards and evaluation methods, and to develop standardized IC training.

(U) Resources in this project are used to:

• (U) Provide analytic ombudsman services for NGA.

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• (U) Determine standards and review processes for GEOINT products and information.

• (U) Review GEOINT products and information (using sampling methods).

• (U) Provide quality review data and customer feedback information to analysts.

• (U//FOUO) Perform outreach to other IC, DoD, public, and private sector organizations for the purpose of sharing quality practices, communication and guidance regarding quality methods, and training and education on structured analytical techniques—all of which aim to improve the quality of NGA and IC-wide analysis.

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(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Evaluate 10 percent of NGA finished products in accordance with ICD 203. (AP\_00011)

(U) Changes from FY 2010 to FY 2011:

(U) There are no changes from FY 2010 to FY 2011.

# (U) ENTERPRISE IT SYSTEMS (U) PLATFORMS

# (U) Project Description

(U//FOUO) Platforms Project resources provide for NGA's corporate computing infrastructure including corporate business tools and applications, desktop workstation services, and Information Technology/Information Services (IT/IS) contracting support.

(U) Resources in this project are used to:

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• (U//FOUO) Operate and maintain corporate applications and web services, including support for human resource and facility space planning and management applications.

• (U//FOUO) Operate and maintain NGA's Financial Information Tool Suite, which includes Public Sector Budgeting to support internal analysis and tracking of NGP and NGA MIP resources, and preparation of financial deliverables to oversight organizations.

• (U//FOUO) Provide desktop workstation services that support the movement, installation, and proper disposal of workstation hardware.

• (U) Manage efforts related to the solicitation, selection, award, management, settlement, and retirement of contracts and business agreements for all agency IT goods, services, and data.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U) Achieve the goal of 95 percent resolution of desktop computer tickets within the prescribed timeframe of four hours to three days, depending upon tier priority 1-3. (NGP\_00649)

• (U) Achieve 99 percent availability of primary online human resource applications.

• (U) Maintain the goal that 95 percent of major systems, as defined by OMB Circular A-130, meet availability requirements. (EIT-00003)

(U) Changes from FY 2010 to FY 2011:

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# (U) ENTERPRISE IT SYSTEMS (U) CONNECTIVITY

### (U) Project Description

(U//FOUO) Connectivity Project resources provide for the installation and maintenance of NGA's worldwide network circuitry. This includes around-the-clock operation and maintenance of an infrastructure that disseminates data and voice communications worldwide over secure and non-secure circuitry.

(U) Resources in this project are used to:

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• (U//FOUO) Provide connectivity across NGA's technical infrastructure, LANs, wide area networks (WAN) including the Interim Transition Capability (ITC), leased lines, and telephone communications services.

• (U//FOUO) Provide around-the-clock operations for NGA's SCI network (NGANet), Secret Network (SECNet), and Sensitive but Unclassified Network (SBUNet), including troubleshooting, technical and engineering support for network upgrades, and modifications via the Enterprise Network Infrastructure Initiative (ENII).

• (U//FOUO) Fund leased line and telephone communications services, and recurring costs associated with wide-area bandwidth purchased from the Defense Information Systems Agency, Defense Telecommunications Services-Washington, and other communications mission partners.

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(b)(3) 10 usc Sec 424

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Continue to achieve a target of 100 percent of NGA sites meeting bandwidth capacity requirements. (EIT\_00001)

• (U//FOUO) Maintain 95 percent availability of major systems, as defined by OMB Circular A-130. (EIT 00003)

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# (U) ENTERPRISE IT SYSTEMS (U) MANAGEMENT AND SUPPORT

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### (U) Project Description

(U//FOUO) Management and Support Project resources maintain NGA's Office of the Chief Information Officer (OCIO) activities. Project resources enable operation of NGA's Enterprise Service Center (ESC) and provide configuration management control for all NGA systems and management of NGA's IT policies and privacy programs.

(U) Resources in this project are used to:

• (U//FOUO) Enable OCIO activities such as IT strategic planning and policy development; information sharing across the US, allied intelligence communities, and warfighters; privacy program implementation; support of the National System for Geospatial-Intelligence (NSG) Architecture and Standards Functional Manager; enterprise architecture and GEOINT standards support; portfolio management; and compliance with the Clinger-Cohen Act.

• (U//FOUO) Identify, document, and control current versions of hardware, software, and related architecture documents that compose and support NGA's IT infrastructure.

• (U//FOUO) Plan, manage, execute, validate, and document the installation, movement, modification, and removal of NGA's IT infrastructure (non-desktop) hardware, software, and communication equipment.

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• (U//FOUO) Support operation of the ESC, which records, manages, and resolves IT infrastructure (non-desktop) incidents reported by NGA users.

• (U//FOUO) Plan, manage, execute, validate, and document the Agency's IT policies.

• (U//FOUO) Execute the Agency's privacy program, providing governance, policy, outreach, reporting, privacy protection, and operational structure for the NGA.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Complete stabilization of IT entities installed at the ITC, and ensure ITC systems are capable of performing NGA mission functions during the Agency's transition to the NCE.

• (U//FOUO) Maintain network availability at 99.99 percent. (NGP 00595)

• (U//FOUO) Enable NGA to identify and manage 100 percent of IT assets connected to the Agency's operational networks.

• (U//FOUO) Advance NGA's IT strategic planning processes with NSG partners, to include execution of the IT Performance Management Program and aligning goals and objectives to the IT Strategic Plan.

• (U//FOUO) Facilitate IT governance and provide outreach to CIOs across the IC; provide oversight for information sharing; sustain NSG policies relating to standards; and increase access to and dissemination of GEOINT.

• (U//FOUO) Continue to execute the Agency's privacy program including implementation of the Privacy Impact Assessment/System of Records Notice procedures; an OMB directive to reduce the dependence on social security number usage, and a Privacy Breach Incident Response program.

• (U//FOUO) Continue and expand the adoption, extension, and development of GEOINT standards by the NSG, and allied and coalition mission partners through the National Center for Geospatial Intelligence Standards. Increase the maturity and scope of Open Geospatial Consortium (OGC) standards to assure interoperability at the operational level and address GEOINT access and sensor standards.

(b) (3) 10 4 GC 55C. 425

• (U//FOUO) Continue implementation of portfolio management (PfM) and capital planning and investment control processes to select, evaluate, and manage NGA IT investments.

• (U//FOUO) Continue to develop cost estimates for major IT acquisition projects in support of ODNI CAIG ICEs, IT source selections, and PfM activities.

• (U//FOUO Continue to provide earned value management (EVM) training, and develop and implement EVM policies to ensure that IT systems are managed by reliable cost, schedule, and performance data.

(U) Changes from FY 2010 to FY 2011:

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# (U) ENTERPRISE IT SYSTEMS(U) SYSTEMS MAINTENANCE

# (U) Project Description

(U) Resources in this project are used to:

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• (U//FOUO) Maintain the ITC—a data site located in the Washington, DC, area that serves as a Tier 3-compliant alternate data site during NGA's re-deployment to the NCE—ensuring critical mission continuity and support to mission partners.

• (U//FOUO) Maintain and sustain ISP aspects of the NSG architecture and GEOINT systems—including preventive, adaptive, and corrective maintenance, and system support. These systems support all phases of GEOINT TPED, and include the Integrated Exploitation Capability, Imagery Exploitation Support System, and the National Information Library.

• (U//FOUO) Purchase and maintain NGA software licenses.

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• (U//FOUO) Maintain and sustain NGA's deployable production systems, including the Domestic Mobile Integrated Geospatial-Intelligence System. NGA provides these IT deployment services worldwide—in conjunction with NST deployments—to provide military, intelligence, and civil mission partners with customized imagery and geospatial products and services tailored for current operations and contingencies.

• (U//FOUO) Support IT service quality management efforts and International Standards Organization activities that identify and implement process improvements and attain excellence in industry standard processes.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Maintain network availability at 99.99 percent. (NGP 00595)

• (U//FOUO) Maintain the goal that 95 percent of major systems, as defined by OMB circular A-130, meet availability requirements. (EIT 0003)

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• (U//FOUO) Resolve 95 percent of desktop computer tickets with prescribed timeframe of four hours to three days, depending upon tier priority 1-3. (NGP\_00649)

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(U) Changes from FY 2010 to FY 2011:

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# (U) ENTERPRISE IT SYSTEMS (U) DATA HANDLING AND END-USER FUNCTIONALITY

# (U) Project Description

(U//FOUO) Data Handling and End-User Functionality Project resources provide support for GEOINT data repositories, data search and manipulation tools, collaborative services, and tools for producing and disseminating finished products to national policymakers, operational forces, and NGA's mission partners.

(U) Resources in this project are used to:

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• (U) Provide tailored imagery dissemination and GEOINT access services to support DoD, coalition, and civilian expeditionary and crisis operations worldwide.

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• (U) Enable NGA's Applied IT Solutions (AITS) program, which consists of the following:

--- (U) NGA Earth, which makes unclassified and commercial imagery products and services available to traditional and non-traditional users.

--- (U//FOUO) The Web-based Access and Retrieval Portal (WARP), which provides access to GEOINT on multiple security domains.

• (U//FOUO) Provide records management support enabling storage systems, policies, and procedures to manage NGA's recorded information that ensures compliance with Executive Order 12958.

(U) The NGP expects the project to accomplish the following in FY 2011:

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# (U) ENTERPRISE IT SYSTEMS(U) INFORMATION ASSURANCE

# (U) Project Description

(U//FOUO) Information Assurance (IA) Project resources provide cyber security for all NGA networks, systems, and geospatial data worldwide. These efforts ensure that NGA data and IT systems are safe, secure, and in compliance with applicable laws and regulations.

(U) Resources in this project are used to:

• (U//FOUO) Fight cyber intrusions from state and non-state actors and guard against national security breaches by adversaries.

• (U//FOUO) Constantly monitor NGA worldwide intelligence networks and ensure system security and configuration compliance.

• (U//FOUO) Provide around-the-clock, on-call, operational response to emergency cyber attacks, threats, warning orders, and incidents; and coordinate with the Joint Task Force-Global Network Operations (JTF-GNO) and the US Center for Computer Incident and Emergency Response operations.

• (U//FOUO) Maintain around-the-clock information security support to NGA personnel deployed in theater and at the COCOMs.

• (U//FOUO) Provide management and technical oversight of the NGA perimeter defense systems to ensure uninterrupted GEOINT access to mission partners and protect the global information grid.

• (U//FOUO) Sustain real-time IA vulnerability support testing and assessments and maintain around-the-clock operation of the NGA public key infrastructure (PKI).

(b) (3) 10 MSC SEC 4/24

• (U//FOUO) Direct Agency Federal Information Security Management Act (FISMA) reporting and compliance monitoring.

• (U//FOUO) Provide enterprise-controlled interface and cross-domain security compliance, engineering, and monitoring; and malicious code scanning, containment, and remediation.

• (U//FOUO) Perform DoD Directive 8570.01 "Information Assurance Training, Certification, and Workforce Management" training and triennial site security inspections for FISMA compliance.

# (U) ENTERPRISE IT SYSTEMS (U) ENTERPRISE ARCHITECTURE AND PLANNING

# (U) Project Description

(U//FOUO) Enterprise Architecture and Planning Project resources provide for management of the NSG requirements process and support NSG management efforts to ensure interoperability and integration of system capabilities.

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(U) Changes from FY 2010 to FY 2011:

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(U) There are no significant changes from FY 2010 to FY 2011.
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#### (U) RESEARCH AND TECHNOLOGY (U) GEOINT BASIC AND APPLIED RESEARCH

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#### (U) Project Description

(U//FOUO) GEOINT Basic and Applied Research Project resources enable scientific discovery, study, experimentation, and translation of promising research into potential solutions for broadly defined intelligence needs. The identification and exploitation of cutting-edge scientific research efforts are focused against National System for Geospatial-Intelligence (NSG) R&D priorities for exploration of new phenomenologies and cross-cutting technologies, to include, GEOINT analytics, multi-source and multi-INT fusion, integrated problem-driven collection, and automated image and geospatial data understanding. Resources enable a greater understanding of the fundamental sciences, such as image science, mathematics, and physics that support GEOINT TPED functions. Research focuses on the exploration of key scientific principles that enable more precise and accurate GEOINT products and automated GEOINT data processing and exploitation functions. (U) Resources in this project are used to:

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(U) Changes from FY 2010 to FY 2011:

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(U) The NGP expects the project to accomplish the following in FY 2011:

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#### (U) RESEARCH AND TECHNOLOGY (U) GEOINT RESEARCH AND TECHNOLOGY ENABLERS

#### (U) Project Description

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(U//FOUO) GEOINT Research and Technology Enablers Project resources support research of a broad array of technologies that enable other activities within the NGP's Research & Technology Expenditure Center.

(U) Resources in this project are used to:

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• (U//FOUO) Engage NGA and NSG partners in facilitating technology transfer and insertion between NGA and the NSG.

- (U//FOUO) Support the functional management of RDT&E within the NSG.

(U) The NGP expects the project to accomplish the following in FY 2011:

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• (U//FOUO) Continue to conduct NSG R&D forums and symposiums to enable robust maturation of the NSG R&D Roadmap. (NGP\_00633)

• (U//FOUO) Provide assessments of opportunities to utilize or leverage commercial and other government IT research. (NGP 00633)

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#### (U) ENTERPRISE MANAGEMENT (U) GEOINT FUNCTIONAL MANAGEMENT

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#### (U) Project Description

(U//FOUO) The GEOINT Functional Management Project provides resources to advance and strengthen functional management across the National System for Geospatial-Intelligence (NSG). These resources support NSG leadership; policy development; governance; future needs and capabilities studies; modeling and simulation (M&S); NSG requirements and capabilities analysis; education; and NSG-wide collaborative engagement. Project resources support the Director, NGA, in executing functional management authorities over NSG members and mission partners, as delegated by the DNI and SecDef.

(U) Resources in this project are used to:

• (U//FOUO) Support GEOINT integration management, which includes development of doctrine, directives, and policy; NSG community outreach; and requirements analysis and adjudication of GEOINT capabilities requested by the NSG community.

• (U//FOUO) Support NSG and NGA governance and strategic planning.

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• (U//FOUO) Guide the NGP, NGA MIP, and NSG decisionmaking processes by forecasting, analyzing, and translating emerging technology, required capabilities, and advanced concept needs into long-term investment strategies.

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(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Organize, facilitate, and lead NSG community activities, such as the NSG Senior Managers Council, the Geospatial Intelligence Committee, and the Functional Managers Council, to foster collaboration and integration of NSG-wide initiatives and solutions.

• (U) Incorporate GEOINT into OSD joint doctrine and other DoD and IC doctrine and policies in accordance with DoD Directive 5105.60, National Geospatial-Intelligence Agency.

• (U//FOUO) Conduct functional management outreach to engage with NSG community members and partners regarding roles and responsibilities, and to gather feedback on community initiatives.

• (U//FOUO) Update and publish NSG strategic planning and implementation documents to reflect ODNI and DoD planning guidance.

#### (U) ENTERPRISE MANAGEMENT (U) SECURITY

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#### (U) Project Description

(U//FOUO) Security Project resources provide a secure and safe work environment for the production and dissemination of GEOINT to support operational and strategic priorities of the national security community, in compliance with all applicable security-related federal laws, regulations, and executive orders.

(U) Resources in this project are used to:

• (U//FOUO) Provide physical security for NGA facilities and employees; antiterrorism/force protection (AT/FP); and disaster response planning, guidelines, and procedures.

• (U//FOUO) Support personnel security through adjudications, awareness training, and polygraphs.

• (U//FOUO) Provide computer security awareness training; investigations of computer fraud, waste, and misuse; industrial security; security education and training; document security; special security to ensure adequate protection for highly classified projects; and operational security.

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• (U//FOUO) Implement CI programs, policies, and procedures to detect, deter, and defeat espionage, foreign intelligence, and international terrorist collection efforts directed against NGA; support national CI objectives as directed by the DNI and USD(I), and facilitate and disseminate GEOINT products and services to the US CI and law enforcement communities to address potential threats to NGA personnel, programs, communications, and facilities.

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#### (U) ENTERPRISE MANAGEMENT (U) FINANCE

#### (U) Project Description

(U//FOUO) Finance Project resources provide for the effective financial management of NGA resources in support of national security objectives. The Financial Management Directorate oversees all NGA budget and resource management issues in accordance with applicable ODNI and DoD guidance and consistent with federal laws and regulations.

(U) Resources in this project are used to:

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• (U//FOUO) Support corporate financial operations and reporting activities, document and exercise internal financial controls, conduct quality assurance compliance reviews, prepare financial statements, and update financial policy and procedure manuals.

• (U//FOUO) Achieve auditable financial statements and collaborate with OMB, ODNI, and other IC agencies as directed to implement an integrated financial management system.

• (U//FOUO) Provide accounting and financial services through the Defense Finance and Accounting Service (DFAS).

• (U//FOUO) Execute appropriated and reimbursable funds.

• (U//FOUO) Produce the annual NGA Intelligence Program and Budget Submission, Integrated Program and Budget Review, CBJB, Congressional Justification Book, and other required NIP and MIP program and budget documentation.

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• (U//FOUO) Respond to ODNI, OSD, OMB, and Congressional oversight questions on program, budget, and execution issues.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Implement corrective actions as outlined in the NGA Financial Improvement and Audit Readiness plan to achieve auditable financial statements. (NGP 00543)

• (U//FOUO) Continue progress towards the implementation of an integrated financial management system including: identifying and validating hardware and software requirements, confirming report requirements, identifying feeder systems and interface requirements, finalizing the operational strategy, and initiating migration activities to include gap analysis.

• (U//FOUO) Further integrate performance management into NGA investment decisions, programming processes, and budget submissions.

#### (U) ENTERPRISE MANAGEMENT (U) EDUCATION AND TRAINING

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#### (U) Project Description

(U//FOUO) Education and Training Project resources provide for the professional and technical development and training of NGA employees and other members of the NSG. These resources are executed primarily for the leadership, management, and operation of the National Geospatial-Intelligence College (NGC). Project resources also support the Director, NGC, in executing functional management authority for training activities related to GEOINT and the NSG.

(U) Resources in this project are used to:

• (U//FOUO) Provide GEOINT education and training for NGA, IC, and military personnel through the School of Geospatial Intelligence, including military occupational specialty training mandated by DoD and the JCS. A major function of this project is the use of mobile training teams (MTT) to facilitate non-resident training of NGA and non-NGA units worldwide, including combat units deploying or already deployed.

• (U//FOUO) Conduct professional development training to support development of a cadre of NGA leaders prepared for increasing levels of responsibility within the NGA, IC, and DoD.

• (U//FOUO) Support information systems and software required for GEOINT softcopy classrooms, imagery servers, high capacity internal classroom networks, and high-performance training workstations.

(U) The NGP expects the project to accomplish the following in FY 2011:

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• (U//FOUO) Continue training at three extended learning sites (ELSs) and implement two additional sites by the end of FY 2011.

• (U//FOUO) Prepare and implement surge training in core analytic disciplines to respond to increased civilian hires due to retirements and turnover from the transition to the NCE at the Fort Belvoir North Area, Springfield, VA, in FY 2011.

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• (U//FOUO) Maintain the MTT efforts in support of deploying and deployed GEOINT professionals.

• (U//FOUO) Increase e-learning opportunities by enabling additional course offerings via web-based training and other distance learning technologies.

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#### (U) ENTERPRISE MANAGEMENT (U) HUMAN RESOURCES

(U) Project Description

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(U//FOUO) Human Resources Project resources provide for NGA Human Development (HD) programs, operations, and policies; human capital planning; recruiting and retaining a professional workforce; strategic workforce planning; and NGA's Foreign Language and Culture Program.

(U) Resources in this project are used to:

• (U//FOUO) Provide essential human resource services such as benefits counseling, personnel file administration, personnel action request processing, emergency casualty affairs assistance, promotions, retirements, and employee retention initiatives; as well as associated management and preservation of key employee data through use of the PeopleSoft system.

• (U//FOUO) Support the goals and initiatives of the DoD Strategic Human Capital Plan (HCP) and the IC Five Year Strategic HCP through the refinement and implementation of the NGA Strategic HCP.

• (U//FOUO) Provide leadership, organizational development, and change management activities, which enhance agency transformation efforts and emphasize leadership development programs such as mentoring, job shadowing, executive coaching, leadership coaching, and change management assistance.

• (U//FOUO) Review and assess executive performance plans, and provide executive training to address issues identified in the assessment.

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• (U//FOUO) Provide comprehensive recruitment services including development of NGA strategies supporting the National Intelligence Reserve Corps and the IC Recruitment and Retention Strategy.

• (U//FOUO) Maximize use of congressionally sponsored programs, such as the Stokes Educational Scholarship Program, to attract personnel with critical skills.

• (U//FOUO) Develop, execute, and analyze NGA and DNI workforce surveys to determine the number of personnel who plan to retire or leave NGA rather than move to the NCE facility in order to identify the potential impact to NGA.

• (U//FOUO) Manage the NGA drug testing program in accordance with mandatory Guidelines for the Federal Drug-Free Workplace and Executive Order 12564.

• (U//FOUO) Coordinate reintegration assignments for employees returning from external assignments and long-term training.

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• (U//FOUO) Provide NGA worklife programs, including the employee assistance program, wellness and fitness programs, childcare and eldercare referral, telework initiatives, leave bank and leave transfer programs, and worker's compensation.

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• (U//FOUO) As the NSG Functional Manager for Workforce Planning, provide GEOINT workforce planning support to the NSG, the Director of NGA, DNI, SecDef, and other IC mission partner leaders. This includes identification of workforce shortfalls and gaps, options to resolve problems and issues, and future workforce plans.

• (U//FOUO) Provide meaningful work experiences to university students to develop a future mission-ready diverse NGA workforce.

• (U//FOUO) Administer NGA's Foreign Language and Culture Program to include developing and implementing related policies; testing and validating language skills; developing and maintaining required language proficiency; awarding and tracking foreign language incentives; and recruiting and retaining qualified linguists.

(U//FOUO) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Increase recruitment efforts to offset any attrition due to the NCE move and an aging workforce; and execute an integrated recruitment strategy to obtain qualified applicants, achieve hiring targets, and maintain an acceptable fill rate in mission critical positions. • (U//FOUO) Increase emphasis on ensuring a mission-ready workforce by proactively providing integrated personnel services.

• (U//FOUO) Develop tools, methodology, and processes to implement a certification program for GEOINT analyst functional areas, as well as instantiate workforce planning for the NSG.

• (U//FOUO) Develop the calendar year 2012-2017 Human Capital Plan.

• (U//FOUO) Implement a cultural/regional training program that supports DoD and ODNI needs and the acquisition of human terrain analysis skills and capabilities.

(U) Changes from FY 2010 to FY 2011:

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(U) ENTERPRISE MANAGEMENT (U) COOP

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#### (U) Project Description

(U//FOUO) COOP Project resources provide for NGA's continuity planning process, and implementation of National Security Presidential Directive (NSPD) 51/Homeland Security Presidential Directive (HSPD) 20, and National Continuity Policy. These plans ensure NGA's continued operations in support of critical missions in the event of a natural or man-made disaster.

(U//FOUO) Project activities support the development of the NGA COOP plan, which addresses roles, responsibilities, and guidelines for agency leadership during a crisis situation. COOP plans ensure the restoration of NGA's command element structure, agency processes, and essential functions at designated alternate sites, as well as continued GEOINT support to NSG and operational mission partners. The continuity planning process also involves coordination of agency-wide interdependencies to assure mission success and capability resilience during COOP implementation.

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(U) Resources in this project are used to:

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• (U//FOUO) Develop, plan, and support actionable COOP, and continuity process efforts in crisis situations.

• (U//FOUO) Conduct COOP and continuity process exercises to ensure agency readiness in time of crisis.

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• (U//FOUO) Maintain NGA's emergency website and data stores for continuity and emergency response efforts.

• (U//FOUO) Plan and execute critical infrastructure protection efforts to identify assets critical to NGA, DoD, and IC missions; develop policies and procedures addressing the protection, resilience, and survivability of such resources; and provide documentation of identified protection mechanisms.

• (U//FOUO) Implement the NSPD 51/HSPD 20, National Continuity Policy, and Federal Continuity Directives (FCD) 1 and 2.

• (U//FOUO) Deliver the Annual Task Critical Asset List and feedback for the Annual ISR Sector Assurance Plan to the ISR Sector Lead.

• (U//FOUO) Advise the ODNI and the Office of the USD(I) on GEOINT continuity issues, assessments, and proposed solutions.

• (U//FOUO) Develop and manage NGA's continuity program efforts, metrics, and direct COOP corrective action program activities.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Continue to develop, revise, and exercise NGA plans associated with COOP and Business Continuity Planning (BCP) in support of the transition to the NCE.

• (U//FOUO) Develop policies and procedures addressing the protection and survivability of critical resources.

• (U//FOUO) Plan, coordinate, and execute COOP and BCP exercises, and monitor mitigation and remediation efforts in support of mission assurance.

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• (U//FOUO) Maintain, exercise, and demonstrate success for sustaining 80 percent of mission-essential functions as required by NSPD 51/HSPD 20; FCD 1 and 2; DoDD 3020.26; DoDI 3020.42; and DoDI 3020.39. (EMS\_00034)

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(U) Changes from FY 2010 to FY 2011:

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# (U) ENTERPRISE MANAGEMENT(U) ACQUISITION MANAGEMENT

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#### (U) Project Description

(U//FOUO) Acquisition Management Project resources provide day-to-day management and leadership of NGA's acquisition workforce in accordance with applicable laws; ODNI directives; DoD acquisition policies, directives, and regulations; and industry best practices.

(U) Resources in this project are used to:

• (U//FOUO) Execute the duties and responsibilities of the Component Acquisition Executive (CAE) and the Senior Procurement Executive.

• (U//FOUO) Oversee NGA acquisition management practices and ensure implementation of acquisition policies and standards.

• (U//FOUO) Ensure NGA compliance with applicable acquisition policy and OMB, ODNI, and DoD decision criteria for major acquisitions.

• (U//FOUO) Provide contract management and oversight through all phases of the acquisition life cycle—from acquisition planning and solicitation to disposal and contract closeout—for the NSG and NGA. These efforts include support for grants to academic partners and cooperative agreements with industry. • (U//FOUO) Assist the NSG Program Manager (PM) and NGA CAE in assessing acquisition program status throughout the acquisition life cycle.

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• (U//FOUO) Provide financial management support for directorate-level activities, to include monitoring acquisition planning, programming, budgeting, and execution.

• (U//FOUO) Provide an integrated contract performance management capability that includes integrated cost, schedule, and performance management across the NSG; and procurement management tools and analyses (including earned value management analysis).

• (U//FOUO) Ensure continued professional development of the NGA acquisition workforce by supporting acquisition training programs such as the System Engineering Program; Defense Acquisition Workforce Improvement Act (DAWIA); the Matrix Program (a multi-discipline training program that augments DAWIA); and the Continuous Experience, Skill, and Study Program for contracting officers.

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• (U//FOUO) Support the functions of the Secretariat for the NGA Acquisition Review Board, the NGA Acquisition Strategy Panel, the NGA Procurement Review Board, the Acquisition Career Program Board, and the NGA Configuration Control Board.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U) Ensure the successful transition of NGA systems, data, records, and personnel to the NCE.

• (U) Ensure critical acquisition positions, as identified in the Program Management Plan (PMP) for Major Systems Acquisitions (MSAs), are filled with certified personnel. (EMS 00018)

• (U) Ensure all MSAs have an approved PMP that is compliant with the IRTPA and ODNI acquisition policy.

• (U) Continue enhancements to NGA's Contracting Officer's Representative and PM training and certification program.

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• (U) Provide direct directorate-level support for program, planning, and budgeting; cost analysis; and earned value and integrated contract performance management tasks to facilitate efficient program execution.

(U) Changes from FY 2010 to FY 2011:

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# (U) ENTERPRISE MANAGEMENT (U) HEADQUARTERS MANAGEMENT

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#### (U) Project Description

(U//FOUO) Headquarters Management Project resources provide support to NGA's executive leadership through various staff offices integral to the command and control structure and operation of NGA. These offices ensure the executive leadership and workforce receives the appropriate advice, counsel, and support in a workplace that promotes fairness, diversity, and equal opportunity. This project includes resources for: the Office of the Director; Office of Protocol; NGA Command and Control (Office of the Executive Secretariat); Office of the General Counsel (OGC); Office of the Inspector General (OIG); Office of Diversity Management and Equal Employment Opportunity (ODE); and the Office of Corporate Communications (OCC).

(U) Resources in this project are used to:

• (U) Develop and implement NGA policy, plans, and programs; provide leadership for unified operations; provide oversight to all NGA office activities; and manage NGA executive personnel and resources.

• (U) Coordinate official visits and ceremonies.

• (U) Provide administrative editorial support, information management, and document management for NGA.

• (U) Provide legal advice and counsel.

• (U) Promote efficiency, effectiveness, and accountability through objective and independent oversight of NGA programs and operations.

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• (U) Implement equal employment opportunity (EEO) policies and regulations.

• (U//FOUO) Provide professional public affairs support and integrated communication programs to convey NGA's message to a broad range of internal and external audiences, including Congress.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Sustain independent OIG audit, inspection, and investigative activities, as well as maintain required (NGA Policy Directive 7400R4/NGA Instruction for Inspector General Investigations and Ombudsman Intervention) external audit liaison activities and serve as Ombudsman for special issues.

• (U//FOUO) Participate in conferences, symposia, and other events where NGA can showcase its GEOINT products and services and educate others about the critical role GEOINT plays in support of its NSG mission partners and national security. • (U//FOUO) Update the Annual Report on Hiring and Retention of Minority, Female, and Disabled Employees for submission to ODNI.

• (U//FOUO) Update Management Directive 715 – Federal Agency Annual EEO Program Status Report for submission to the US EEO Commission.

• (U//FOUO) Update EEO 462 Report – Federal Agency report on EEO Complaints for submission to the US EEO Commission.

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#### (U) Project Description

(U//FOUO) Facilities Project resources provide for the physical infrastructure that enables NGA to produce GEOINT in support of national security objectives. Project resources enable major construction, planning and design, leasing, utilities, maintenance, and site operations.

(U//FOUO) BRAC Commission recommendations became law in November 2005, directing NGA to consolidate east coast facilities at Fort Belvoir North Area, formerly called the Engineer Proving Ground, in Springfield, VA by 11 September 2011. Project resources will allow NGA to construct a modern, protected campus compliant with DoD Unified Facilities Criteria 4-010-01, and will enable the agency to vacate vulnerable (and in many cases obsolete) east coast facilities.

(U) Resources in this project are used to:

• (U//FOUO) Complete construction of NGA's New Campus East (NCE) at the Fort Belvoir North Area in Springfield, VA, and provide the IT infrastructure for the new facility. IT infrastructure requirements include passive IT (network fiber optics, copper cabling, and pathways); wide area network communications connectivity to include design and installation of the point of presence; and active IT, which includes end-user IT equipment components (administrative and GEOINT production workstations).

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• (U) Conduct space planning, environmental management, total asset management, and program management for NGA facilities.

• (U//FOUO) Operate six major government-owned sites: the Sumner and Dalecarlia sites in Bethesda, MD; NGA College, Fort Belvoir, VA; Second Street site, St. Louis, MO; Arnold site, Arnold, MO; and Building 213, a General Services Administration (GSA)-owned facility in Washington, DC.

• (U) Maintain leases for GSA and commercial spaces occupied by NGA personnel. (NGA leases a contractor-owned and -operated facility in Reston, VA, consisting of three office buildings and two parking garages.)

• (U) Provide utilities to include electricity, gas, oil, water, and sewage services at NGA facilities.

• (U) Provide site operations and conduct facility sustainment, restoration, and modernization (FSRM) at NGA facilities.

(U) The NGP expects the project to accomplish the following in FY 2011:

• (U//FOUO) Complete construction and security accreditation of the north wing of the NCE main building.

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• (U//FOUO) Complete IT installation and certification and accreditation (C&A) in the north wing of the NCE main building.

• (U//FOUO) Achieve full operating capability of the NCE technology center.

• (U//FOUO) Complete personnel moves, mission deployment, and NCE building occupancy by 11 September 2011.

• (U//FOUO) Begin decommissioning six BRAC sites.

• (U//FOUO) Repair selected office areas and repair/replace selected heating, ventilation, and air conditioning systems at NGA's St. Louis site.

• (U//FOUO) Maintain a Facilities Condition Index (FCI) of less than or equal to 10 percent. (EMS\_00022, NGP\_00620)

• (U//FOUO) Maintain a MILCON project current working estimate to programmed amount ratio of less than or equal to 100 percent. (NGP\_00624)

(U) Changes from FY 2010 to FY 2011:

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## (U) FACILITIES AND LOGISTICS (U) LOGISTICS

#### (U) Project Description

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(U//FOUO) Logistics Project resources provide for the administration of NGA policies and processes for property accountability, transportation, shipping, and receiving. Project resources also enable courier and freight services, collection and disposal of solid and hazardous waste, and operation of the recycling program at NGA-operated facilities.

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(U) Resources in this project are used to:

• (U//FOUO) Provide necessary logistics services to NGA's workforce.

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(U) Changes from FY 2010 to FY 2011: ( b) ( l)

#### (U) OVERHEAD PERSISTENT INFRARED (OPIR) GROUND ARCHITECTURE TASKING, COLLECTION, PROCESSING, EXPLOITATION, AND DISSEMINATION (TCPED) LIFE CYCLE COST SUMMARY

#### (U) Acquisition Summary

(U) OPIR TCPED is a heterogeneous mix of systems in various lifecycle stages supporting operations at the Integrated Operations Center-Denver (IOC-D), the National Air and Space Intelligence Center (NASIC), and throughout the IC.

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• (U) Integrate OPIR products and services into a National System for Geospatial-Intelligence (NSG) enterprise service-oriented architecture (SOA) to prepare for and enable a more distributed and diverse OPIR production capability.

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(U) The OPIR user community produced the 2015 Integrated OPIR Ground System of Systems (SoS) Functional Requirements Document (FRD) in 2008. The FRD formalizes the community's OPIR ground systems needs, and provides a foundation from which materiel requirements and subsequent acquisition activities can be derived to address necessary capabilities. A subsequent capability gap analysis identified areas where the baseline architecture does not fulfill the capabilities required by the 2015 Integrated OPIR Ground SoS FRD. The FRD gap analysis is driving OPIR acquisition activities.

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# (U) Major Performers

Performer Name/Location	Function
Lockheed Martin/Denver, CO	Provides legacy system engineering and maintenance support and development support.
Northrop Grumman/Denver, CO	Provides legacy system engineering and maintenance support and development support.
Raytheon/Aurora, CO	Provides legacy system engineering and maintenance support and development support.
General Dynamics/Dayton, OH	Provides software development.
Ball Aerospace/Dayton, OH	Provides software development.
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#### (U) SAINT LOUIS INFORMATION LIBRARY (STIL) LIFE CYCLE COST SUMMARY

#### (U) Acquisition Summary

(U//FOUO) The STIL acquisition program implements a major element of the overarching National System for Geospatial-Intelligence (NSG) data center migration effort. The primary objective of the STIL acquisition program is to transfer the existing dissimilar and geographically dispersed GEOINT library and data storage elements into a homogenous, net-centric, and data-centric operations platform and to provide the foundation for NGA's GEOINT Knowledge Base (GKB). The GKB will provide an interconnected group of data holdings and services for GEOINT knowledge management and data mining. The libraries and data storage elements identified and prioritized by this acquisition program are consistent with NGA leadership goals and priorities, as well as the BRAC-driven New Campus East (NCE) timelines. NGA's east coast consolidation at the NCE in FY 2011 is a key driver for this program and creates a critical, schedule-constraining dependency to transition imagery library capabilities and data from the Bethesda, MD facility to the STIL in the NGA Data Center-West (NDC-W) in Saint Louis, MO.

(U//FOUO) The Bethesda facility housed three critical NGA imagery libraries: the Imagery Analyst Command Information Library (IACIL), the Mapping, Charting, and Geodesy Information Library (MC&GIL), and the Unclassified National Information Library (UNIL). In response to the BRAC-directed consolidation at the NCE, NGA migrated the data holdings and capabilities of these three libraries and the MC&G Media Generation System (MMGS) in Reston, VA to the STIL in October 2009, where they remain available for use. These libraries will be integrated into an operationally-ready, centralized library with multiple security levels by 3QFY10, allowing for a period of user transition prior to the September 2011 BRAC deadline.

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(U//FOUO) In addition to the three libraries and the MMGS capabilities that already moved to the STIL, NGA plans to migrate Command Information Library (CIL) holdings and airborne tactical imagery (still and motion) from the secret/collateral (SC) National Information Library (NIL) after the NCE move is complete.

(U//FOUO) The STIL development plan consists of four incremental phases. Each phase overlaps and builds upon the previous phase to transform the existing National Geospatial-Intelligence Libraries (NGLs) into a service-oriented architecture (SOA)-based centralized library.

• (U//FOUO) Phase 1, which achieved initial operational capability (IOC) in November 2007, upgraded the existing NGL technical baselines to a standardized COTS hardware, operating system, and database configuration, and established an initial SC security domain for ingest of SC imagery.

• (U//FOUO) Phase 2, which achieved IOC in January 2009, established an initial SCI security domain for ingest of SCI imagery and MC&G support data, expanded the SC security domain, and established capabilities required by MC&GIL users. Phase 2 completion enabled the transition of MC&GIL operations from Bethesda prior to the BRAC deadline. In July 2009, a JPEG 2000 Interactive Protocol (JPIP) streaming service was integrated with the SC security domain. This allows Secret Internet Protocol Router Network (SIPRNet)-connected warfighters  $(\not D)(f+)$ 

-to have timely access to select NTM imagery within predefined areas of interest via a simple web-based interface and without unique STIL log-on credentials.

• (U//FOUO) Phase 3 achieved IOC in December 2009 with the following objectives: establish an unclassified security domain; expand the SC and SCI security domains; and provide capabilities for ingesting, storing, and disseminating commercial imagery.

• (U//FOUO) Phase 4 starts in February 2010. It will begin transforming the Phase 3 baseline into a SOA for greater capability and growth potential; and will implement computing, storage, and network virtualization to enhance operational availability of the system. It also will provide the capability for ingest, storage, and dissemination of selected tactical airborne still and motion imagery. STIL Phase 4 is planned to achieve IOC by 3QFY12.

(U//FOUO) STIL Phase 2 initiation to Phase 4 completion represents an approximately 57-month development timeline during which NGA plans to complete the significant STIL program objectives stated above. Implicit in delivering an operational centralized library at multiple security levels—including a substantial upgrade in capability during each development phase—are the underlying security certification and accreditation activities, the addition of numerous external interfaces that are either modified or newly developed, and the evolving SOA-related enterprise engineering efforts.

(U//FOUO) Milestone B for STIL was approved in September 2007. The STIL Phases 2-4 acquisition program is being executed through a competitively awarded, cost plus award fee contract with multiple delivery- and performance-based incentives. (U//FOUO) The ODNI CAIG ICE for the STIL program was completed in October 2008. The NGA STIL program is funded consistent with the ICE in FY 2011 – FY 2015.

#### (U) Major Performers

Performer Name/Location	Function
BAE Systems National Security Solutions/Rancho Bernardo, CA	Prime development contractor
Harris Corporation/ Melbourne, FL	Sub – Application service provider, system engineering and analysis
Lockheed Martin Corporation/ Valley Forge, PA	Sub – Operation and sustainment, System integration, test and validation
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STIL Phase 1	STIL Phase 2	
SC level storage domain (initial establishment).	SC level storage domain (expansion).	
Establish commodity infrastructure foundations.	• SCI level storage domain (initial establishment).	
Establish electronic feed for SC NTM.	• SC to SCI controlled interface (initial establishment).	
• Provide single security level (SC).	• NTM and MC&G imagery and support data import and export	
• Port selected elements of NGL software to new hardware,	capability.	
operating system, and database management system.	• Move/migrate MC&G imagery and support data to the	
<ul> <li>Implement Net-centric GEOINT Discovery Services access to provide single points of entry to Phase 1 data stores.</li> <li>Provide Open Geospatial Consortium (OGC) Web Services.</li> </ul>	NDC-W.	
	• Begin movement/migration of NTM imagery and support data to NDC-W	
	• Convert Tape Format Requirements Document 4.3 imagery to National Imagery Transmission Format 2.1 J2K compressed format for archival purposes.	
	• Provide STIL Statistics Reporter Web Service (SC and SCI levels).	
	<ul> <li>Provide partial IACIL capabilities and data.</li> </ul>	
	<ul> <li>Provide full MC&amp;GIL capabilities and data.</li> </ul>	
	<ul> <li>Provide limited JPIP streaming of select NTM imagery over the SIPRNet</li> </ul>	
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more competitive acquisition environment. Block II CDD requirements are partitioned into two increments: RTM 2 and RTM 3. RTM 2 is further broken down into three sub-increments: 2.0, 2.1, and 2.2.

(U) A summary of Block II increments within the NSG Enterprise Modernization initiative is provided below:

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(U//FOUO) The ODNI CAIG completed an ICE of the GeoScout Block II effort in February 2005, based on the Block II technical baseline in NGA's August 2004 Intelligence Capability Baseline Description (ICBD). ODNI CAIG completed an updated ICE in October 2008 based on NGA updates to ICBD programmatic information. Cost data presented in this exhibit reflects the 2008 ICE. Subsequent modifications to the acquisition approach necessitate revisions to the 2008 ICE, which ODNI plans to complete in FY 2010. The results of the revised ICE will be incorporated into the NGP FY 2012 budget submission. Current plans indicate that the revised ICE will divide the Block II CDD effort into two MSAs delineated by RTM 2 (source tasking management) and RTM 3 (analysis and production workflow management). An overview of the two MSAs is provided in the diagram below.

	NSC Block II CDD		
	MSA 1:RTM 2	MISAN2: RTM13	
/ referred to as Increment 11 & mation Management Service (GIMS)	RTM 2.0 SCI Tasking (Retire RMS) RTM 2.1 Secret & Unclassified	W/ork(low), Management: (ReplacestPM/AA, TNEST&IESS)	
Previous GEOINT Infor	RTM 2.2 Airborne Tasking		

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(U//FOUO) The RTM 2 MSA was baselined in a Special Program Review conducted in January 2010. The RTM 3 MSA will be rebaselined pending consultation with relevant stakeholders. No FY 2011 resources are requested for the second MSA in the submission.
## (U) Major Performers

 $\mathbf{N}$ 

Performer Name/Location	Function
BAE Systems National Security Solutions/San Diego, CA	Sub – Storage
Booz Allen Hamilton, Inc./McLean, VA	Sub - System Engineering Support
Dell Inc./Round Rock, TX	Sub - Hardware
General Dynamics Electronics System/Thousand Oaks, CA	Sub – IESS
Lockheed Martin Information Systems and Global Services/Fairfax, VA	GeoScout Prime and RMS
Lockheed Martin Information Systems and Global Services/Denver, CO	Sub – NES
NJVC, LLC/Vienna, VA	IT/IS Prime
Northrop Grumman Information Technology TASC, Inc./Chantilly, VA	Sub - System Engineering Support
Raytheon Company/Reston, VA	Sub – PMAA
Science Applications International Corporation (SAIC)/Chantilly, VA	Sub - System Engineering Support
Sun Microsystems Federal, Inc./McLean, VA	Sub - Hardware and Software
Oracle Corporation/Reston, VA	Sub – Database/e-Business Support
Red Hat, Inc./Raleigh, NC	Sub – Software Support
Harris Corp./Melbourne, FL	Sub – Software
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### (U) COMMERCIAL SECURE OPERATIONS (CSOP) (U) LIFE CYCLE COST SUMMARY

(U) Acquisition Summary

(b)(l)

(U//FOUO) The CSOP component of EnhancedView provides the secure interface between the CDPs and the National System for Geospatial-Intelligence (NSG). This interface will enable the NSG to incorporate a wider range of CDP capabilities into all aspects of GEOINT to enhance and expand support to a broad scope of missions and functions. Areas of support range from providing raw data to fulfilling formal exploitation requirements for DoD, national, or civil missions. The CSOP program funds improvements to the CDPs' architectures to ensure support for both secure and non-secure tasking and imagery. CSOP also funds upgrades to the NSG to capitalize on the CDP architecture improvements and more fully integrate commercial data into the NSG.

(U) CSOP was designated a major system acquisition (MSA) in August 2009. NGA is working towards a Milestone B decision in the 2QFY10. NGA anticipates release of an RFP in early FY 2010 with an anticipated contract award in 3QFY10. Capability improvements will be executed through separate contract line item numbers on existing CDP contracts. Requests for changes will be used to modify and upgrade the current NSG segments. An ODNI CAIG approved ICE is expected in 3QFY10. The current funding request is based on the program office estimate.

### (U) Major Performers

Performer Name/Location	Function
MITRE Corp./McLean, VA	Program/Acquisition support
Aerospace Corp./Chantilly, VA	Program/Acquisition support
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National Intelligence Program



# FY 2011 Congressional Budget Justification

Volume XIII



National Geospatial-Intelligence Agency

February 2010

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(U) CONGRESSIONAL REPROGRAMMING ACTIONS ( b) ( 1 ) ())() . 4 221

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(U//FOUO) NGA acquisition, management, and contracting strategy fundamentals are used. NGA adheres to guidance outlined in the NGA Acquisition Instructions, DoD 5000, Directive 7, Federal Acquisition Regulations (FAR), and FAR Supplement Policies and Procedures. There is full and open competition to the maximum extent possible. NGA participates in market survey type activities to the maximum extent possible to ensure that effective and efficient decisions are made on the front-end and in the Electronic Commerce markets via the Internet to the maximum extent possible. Through the NGA Acquisition Center, NGA can take advantage of our mission partner's acquisition center facilities, training, tools, and best practices, thus allowing NGA key components to utilize outside resources. NGA also coordinates joint projects with mission partners through memoranda of agreements and open forum interaction.

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Exhibit R-4: RDT&	E Pr	oject S	Sched	ule Pr	ofile																		Date	Feb	ruary	2010	··	
Project Name: NSG	- Ope	ration	al Sys	stems																								
This table is UNCLA	ASSU	TED/	/FOU	0	_																							
Fiscal Year		FY	2009			FY	2010			FY	2011			FY	2012			FY	2013			FY	2014			FY:	2015	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
N/A						<u>}</u>																						
Remarks: Developm	nent a	ctiviti	es fun	ded wi	ithin th	nis pro	ject do	not n	neet th	e three	shold f	for ma	jor sys	tems	cquis	itions.	Deve	lopme	nt mil	estone	s are i	ncorpo	orated	into th	ie over	call NS	3G	
master schedule.																												
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#### A. MISSION DESCRIPTION AND PROJECT JUSTIFICATION:

(U//FOUO) The NSG Systems Engineering (NSGS) project provides engineering services across the NSG enterprise, including engineering development activities for GEOINT production systems and corporate management systems. Project activities are divided into two categories: Enterprise Engineering (EE) and System Integration (SI). EE resources are focused on enterprise management efforts including scheduling, requirements, and test/evaluation planning. EE resources support efforts related to NSG source integration, NSG architecture and standards, and NGA systems engineering. SI resources enable overarching system integration efforts that support both the current and future NSG architecture, and integrate and initialize the capabilities delivered by GeoScout. SI resources ensure that NSG component systems perform efficiently and function as a system of systems.

### FY 2009 Accomplishments:

(U//FOUO) Provided NSG systems engineering to support the successful deployment of NGA's mission systems to the New Campus East (NCE) as NGA begins the phased physical move into the new campus.

(U//FOUO) Provided core enterprise engineering and system integration services to assure timely accomplishments of the program baseline.

(U//FOUO) Provided integrated test services for newly developed, upgraded, or modified NSG systems prior to deployment.

## (3)(1)

### FY 2010 Planned Project:

(U//FOUO) Continue providing NSG systems engineering to support the successful deployment of NGA's mission systems to the NCE as NGA continues the phased physical move into the new campus.

(U//FOUO) Continue providing core enterprise engineering and system integration services to assure timely accomplishments of the program baseline.

(U/FOUO) Continue providing integrated test services for newly developed, upgraded, or modified NSG systems prior to deployment.

FY 2011 Planned Project:

(U//FOUO) Continue providing NSG systems engineering to support the successful deployment of NGA's mission systems to the NCE as NGA completes the phased physical move into the new campus.

(U//FOUO) Continue providing core enterprise engineering and system integration services to assure timely accomplishments of the program baseline.

(U//FOUO) Continue providing integrated test services for newly developed, upgraded, or modified NSG systems prior to deployment.

(U//FOUO) NGA acquisition, management, and contracting strategy fundamentals are used. NGA adheres to guidance outlined in the NGA Acquisition Instructions, DoD 5000, Directive 7, Federal Acquisition Regulations (FAR), and FAR Supplement Policies and Procedures. There is full and open competition to the maximum extent possible. NGA participates in market survey type activities to the maximum extent possible to ensure that effective and efficient decisions are made on the front-end and in the Electronic Commerce markets via the Internet to the maximum extent possible. Through the NGA Acquisition Center, NGA can take advantage of our mission partner's acquisition center facilities, training, tools, and best practices, thus allowing NGA key components to utilize outside resources. NGA also coordinates joint projects with mission partners through memoranda of agreements and open forum interaction.

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EXHIBIT R-2: RDT&E Item Budget Justification	DATE: February 2010	
Project Name: NSG Integrated Architecture Services	Dollars in Millions	
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		1
D. Acquisition Strategy:		
(U//FOUO) NGA acquisition, management, and contracting strategy fundation	amentals are used. NGA adheres to guidance outlined	in the NGA
and open competition to the maximum extent possible. NGA participates i	n market survey type activities to the maximum extent	cossible to ensure
that effective and efficient decisions are made on the front-end and in the	Electronic Commerce markets via the Internet to the ma	aximum extent

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possible. Through the NGA Acquisition Center, NGA can take advantage of our mission partner's acquisition center facilities, training, tools, and best practices, thus allowing NGA key components to utilize outside resources. NGA also coordinates joint projects with mission partners through memoranda of agreements and open forum interaction.

Exhibit R-3: RDT&E Project Cost	Analysis							Date: Febr	uary 2010				
Project Name: NSG Integrated Are	chitecture Serv	vices					<u> </u>						
This table is UNCLASSIFIED//FO	nis table is UNCLASSIFIED//FOUO												
	Contract	Performing			FY 2010		FY 2011						
	Method	Activity &	FY 2009	FY 2010	Award	FY 2011	Award	Cost to					
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Complete	<b>Total Cost</b>				
N/A		· ·											
Subtotal Product Development			N/A	N/A		N/A		N/A	N/A				
N/A									······				
Subtotal Support			N/A	N/A		N/A		N/A	. N/A				
N/A.							<u></u>						
Subtotal Product T&E			N/A	N/A		N/A		N/A	N/A				
N/A					·								
Subtotal Management			N/A	N/A		N/A		N/A	N/A				
Total Cost			Ň/A	N/A		N/A		N/A	N/A				
<b>Remarks:</b> Development activities fur estimates are not available.	nded within thi	s project do no	ot meet the	threshold f	for major sy	vstems acqu	isitions and	d thus ODNI	CAIG cost				

Exhibit R-4: RDT&	E Pro	ject S	chedu	le Pro	ofile																		Date	Feb	ruary	2010		
Project Name: NSG	Integ	grated	Arch	itectu	re Ser	vices																			·			
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Fiscal Year	Fiscal Year FY 2009 FY 2010 FY 2011 FY 2012 FY 2013 FY 20													2014			FY	2015										
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3_	4	1	2	3	4	1	2	3	4	1	2	3	4
N/A																											<u> </u>	
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Remarks: Developm schedule.	nent ac	tivitie	s fund	ed wit	hin thi	is proje	ect do	not m	eet the	thresh	iold fo	r majo	r syste	ems ac	quisiti	ons. I	Develo	pment	miles	tones a	are inc	orpora	ated in	to the	overall	I NSG	maste	er
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EXHIBIT R-2: RDT&E Item Budget Justification	DATE: February 2010
Project Name: NSG Sensor Integration	Dollars in Millions
This table is [	
$(\mathbf{b})$ $(\mathbf{b})$	
	(b) (1)
	·
D. A contribution Structure	
(II//FOLIO) NGA acquisition management and contracting strategy fundament	entals are used. NGA adheres to guidance outlined in the NGA
Acquisition Instructions, DoD 5000, Directive 7, Federal Acquisition Regulati	ons (FAR), and FAR Supplement Policies and Procedures. There is full
and open competition to the maximum extent possible. NGA participates in	market survey type activities to the maximum extent possible to ensure
that effective and efficient decisions are made on the front-end and in the El	ectronic Commerce markets via the internet to the maximum extent
practices, thus allowing NGA key components to utilize outside resources.	VGA also coordinates joint projects with mission partners through
memoranda of agreements and open forum interaction.	· · · · ·

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Exhibit R-4: RDT&	E Pr	oject	Sched	ule Pr	ofile														·····				Date:	Feb	ruary	2010		
Project Name: NSC	Sen	sor In	tegrat	ion_																								
This table is UNCL	ASSI	FIED											r										}					
Fiscal Year		FY	2009			FY	2010	_		FY:	2011			FY	2012			FY:	2013_			FY	2014			FY	2015	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
NA																											<u> </u>	
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EXHIBIT R-2: RDT&E Item Budget Justification

Project Name: St. Louis Information Library (STIL)

This table is

## ()(d)

### FY 2010 Planned Project:

(U//FOUO) Migrate 100 percent of UNIL commercial imagery import and export volumetric capability at the controlled but unclassified level.

(U//FOUO) Migrate 100 percent of IACIL NTM imagery export volumetric capability at the SC and SCI security levels. (U//FOUO) Migrate 100 percent of the NTM and commercial imagery and support data from the IACIL and UNIL to the STIL. (U//FOUO) Implement triple (unclassified, SC, and SCI) security levels for the STIL.

(U//FOUO) Complete requirements analysis and design activities through the Phase 4 (tactical airborne and SOA capability) critical design review

DATE: February 2010

#### FY 2011 Planned Project:

(U//FOUO) Will complete development activities for STIL Phase 4 (tactical airborne and SOA capability).

(U//FOUO) Will migrate tactical still and motion airborne imagery and support data into the STIL.

(U//FOUO) Will provide import and export capability for tactical still and motion airborne imagery and support data. (U//FOUO) Will enhance STIL architecture for dynamic resource allocation and network virtualization; Raster Services decomposition and SOA framework; and the ability to upgrade without downtime which will increase operational availability to 99.95%. (U//FOUO) Will provide commercial and airborne data feeds to the Compartmented STIL (CSTL).

(U//FOUO) Will provide Geospatial JPEG2000 Interactive Protocol (JPIP) streaming capability.

EXHIBIT R-2: RDT&E Item Budget Justification	DATE: February 2010
Project Name: St. Louis Information Library (STIL)	Dollars in Millions
This table is	
1	
$(\mathbf{b})$ $(\mathbf{i})$	(+)
D. Acquisition Strategy:	
(U//FOUO) NGA acquisition, management, and contracting strategy fundar	nentals are used. NGA adheres to guidance outlined in the NGA
Acquisition Instructions, DoD 5000, Directive 7, Federal Acquisition Regula	tions (FAR), and FAR Supplement Policies and Procedures. There is full
and open competition to the maximum extent possible. NGA participates in the effort and in the F	I market survey type activities to the maximum extent possible to ensure
possible. Through the NGA Acquisition Center, NGA can take advantage c	our mission partner's acquisition center facilities, training, tools, and be
practices, thus allowing NGA key components to utilize outside resources.	NGA also coordinates joint projects with mission partners through
Imemoranda of agreements and open forum interaction.	

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Exhibit R-3: RDT&E Project Cost An	alysis							Date: Febr	uary 2010
Project Name: St. Louis Information I	_ibrary (ST	<b>L</b> )							
This table is UNCLASSIFIED//FOUO								Dollars in N	/lillions
	Contract	Performing			FY 2010		FY 2011	FY2012-	
	Method	Activity &	FY 2009	FY 2010	Award	FY 2011	Award	FY2015	
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Total Cost
Subtotal Product Development		 	0.0	0.0		0.0		0.0	0.0
							·		
							· · ·		
Subtotal Support			0.0	0.0		0.0		0.0	0.0
Subtotal Product T&E	I		0.0	0.0		0.0		0.0	0.0
Subtotal Management			0.0	0.0		0.0		0.0	0.0
	1		[						

Remarks:

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NGA cost estimates and schedule planning are done by system not budget project. Development funding for an individual system can cross multiple NGA projects and expenditure centers based on the system element. Cost estimates and schedule milestones for all NGA Major System Acquisitions are provided in the Acquisition Summary section of the budget.

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EXHIBIT R-2: RDT&E Item Budget Justification	DATE:	February 2010
Project Name: NSG Enterprise Modernization (previously titled GeoScout Block II)		
This table is		
$(\mathbf{b})(\mathbf{i})$		
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FY 2009 Accomplishments:		
(U//FOUO) Prepared for the operational transition of NSG Source Tasking and Management	to include testi	ng and independent
	Isparate L/H sy	stems.
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EV 2010 Blonned Droject:	<u></u>	
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EXHIBIT R-2: RDT&E Item Budget Justification	DATE: February 2010	
Project Name: NSG Enterprise Modernization		
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D. Acquisition Strategy:	_	1
(U//FOUO) NGA acquisition, management, and contracting strategy fundament	itals are used. NGA adheres to guidance	outlined in the NGA
and open competition to the maximum extent possible. NGA participates in maximum	s (FAR), and FAR Supplement Policies an arket survey type activities to the maximum	a Procedures, There is full extent possible to ensure
that effective and efficient decisions are made on the front-end and in the Elec	ronic Commerce markets via the Internet	to the maximum extent
possible. Through the NGA Acquisition Center, NGA can take advantage of or	ir mission partner's acquisition center facili	ities, training, tools, and best
practices, thus allowing NGA key components to utilize outside resources. No memoranda of agreements and open forum interaction.	A also coordinates joint projects with miss	ion partners through

Exhibit R-3: RDT&E Project Cost An	alysis							Date: Febr	uary 2010
Project Name: NSG Enterprise Mode	rnization				· ·				
This table is UNCLASSIFIED//FOUO								Dollars in N	Aillions
	Contract	Performing			FY 2010		FY 2011	FY2012-	
	Method	Activity &	FY 2009	FY 2010	Award	FY 2011	Award	FY2015	
Cost Categories	& Туре	Location	Cost	Cost	Date	Cost	Date	Costs	Total Cost
Subtotal Product Development		·	0.0	0.0		0.0		0.0	0.0
Subtotal Support			0.0	0.0		0.0		0.0	0.0
Total Cost			0.0	0.0		0.0		0.0	0.0
Remarks: NGA cost estimates and schee	lule plannin	g are done by	system not	budget pro	oject. Deve	lopment fu	iding for a	n individual s	ystem can
cross multiple NGA projects and Expend	iture Center	rs based on the	system ele	ement. Cos	t estimates	and schedu	le mileston	es for all NG	A Major
System Acquisitions are provided in the	Acquisition	Summary sect	tion of the	budget.					

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EXHIBIT R-2: RDT	&E Item B	Sudget Just	ification				DATE: Fe	bruary 20	10		
Project Name:							Dollars in	Millions			
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		-	•								
								~			
1 1	ı		FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015		
(U) Not Applicable											
D. Acquisition Strat	egy:	·								I	
(U) Not Applicable											

**EXHIBIT R-2: RDT&E Item Budget Justification** DATE: February 2010 Project Name: GEOINT Basic and Applied Research This table is .

## (b)(1)

### A. MISSION DESCRIPTION AND PROJECT JUSTIFICATION:

(U) The GEOINT Basic and Applied Research Project enablea scientific discovery, study, experimentation, and translation of promising research into potential solutions for broadly defined intelligence needs. The identification and exploitation of cutting edge and scientific research efforts are focsed against National System for Geospatial-Intelligence (NSG) R&D priorities for exploration of new phenomenologies, GEOINT analytics, multi-source and multi-INT fusion, integrated problem-driven collection, and automated image and geospatial data understanding. This research addresses underlying scientific questions permitting more precise and accurate data from geospatial sensor returns and automation of more exploitation processes.

(b)(l)

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• (U//FOUO) Provided for basic research in automation, GEOINT analytics, multi-source fusion, and integrated problem-driven IGEOINT solutions.

Project Nam	ne: GEOINT Basic and Appli	ied Research	 			
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EXHIBIT R-2	RDT&E Item B	DATE: February 2010							
Project Name:	GEOINT Basic	and Applied Rese	earch						
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(U) Provide for basic research in automation, GEOINT analytics, multi-source fusion, integrated problem-driven GEOINT solutions, emerging technology, and Full Motion Video.
(U) Assess the effectiveness of different sources (individual, sequential, coincident, fused, etc.) and methods in addressing hard

problems.

EXHIBIT R-2: RDT&E Item Budget Justification	DATE: February 2010
Project Name: GEOINT Basic and Applied Research	Dollars in Millions
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(U) Not Applicable	

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Exhibit R-3: RDT&E Project Cost A	Date: Febr	uary 2010							
Project Name: GEOINT Basic and									
This table is UNCLASSIFIED	<b>Dollars in Millions</b>								
	Contract	Performing			FY 2010		FY 2011		
	Method	Activity &	FY 2009	FY 2010	Award	FY 2011	Award	Cost to	
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Complete	<b>Total Cost</b>
									0.0
· · · · · · · · · · · · · · · · · · ·									0.0
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Subtotal Product Development			0.0	0.0		0.0		0.0	0.0
Remarks:	<u> </u>	····	<u> </u>			·····		/. <u></u>	
					<u></u>				
	[			•					0.0
									0.0
									0.0
Subtotal Support			0.0	0.0		0.0		0.0	0.0
Remarks:								····	

Exhibit R-3: RDT&E Project Cost Analy		Date: Feb	ruary 2010								
Project Name: GEOINT Basic and Appl		· · · · · · · · · · · · · · · · · · ·									
This table is UNCLASSIFIED	Dollars in Millions										
	Contract     Performing     FY 2010     FY 2011										
	Method	Activity &	FY 2009	FY 2010	Award	FY 2011	Award	Cost to			
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Complete	<b>Total Cost</b>		
									0.0		
									0.0		
1					, ,						
Subtotal Product T&E			0.0	0.0		0.0		0.0	0.0		
Remarks:	· · · · · · · · · · · · · · · · · · ·										
			<u> </u>		·······		<u></u>		0.0		
									0.0		
Subtotal Management			0.0	0.0		0.0		0.0	0.0		
Remarks:	ا <u>ر میں میں ا</u> ا		0.0	0.0	<u> </u>	0.0			0.0		
Total Cost			0.0	0.0		0.0		0.0	0.0		
Remarks:											

Exhibit	hibit R-4: RDT&E Project Schedule Profile														Date: February 2010														
Project	Name: GEC	DINT	Basic	and A	pplie	d Rese	arch																						
This ta	ble is UNCLA	SSIF	TED																										
Fiscal Year FY 2009				FY 2010				FY	2011			FY	2012			FY	2013			FY	2014		FY 2015						
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
N/A																													
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EXHIBIT R-2: RDT&E Item Budget Justification	DATE:	February 201	.0																										
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Project Name: GEOINT Advanced Technology Development																													
This table is																													

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• (U) Develop alerting, registration and conflation tools and services for NTM and commercial collectors and ISR systems.

Exhibit R-3: RDT&E Project Cost Analysis Date: February 2010										
Project Name: GEOINT Advanced To	echnology I	Development	· · · · ·							
This table is UNCLASSIFIED//FOUO			· · · · · · · · · · · · · · · · · · ·					Dollars in N	Aillions	
	Contract	Performing			FY 2010		FY 2011		······································	
	Method	Activity &	FY 2009	FY 2010	Award	FY 2011	Award	Cost to		
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Complete	<b>Total Cost</b>	
									0.0	
	· ·								0.0	
· · · · · · · · · · · · · · · · · · ·									0.0	
Subtotal Product Development			0.0	0.0		0.0		0.0	0.0	
Remarks:										
· · · · · · · · · · · · · · · · · · ·								]	0.0	
									0.0	
									0.0	
Subtotal Support			0.0	0.0		0.0		0.0	0.0	
<b>Remarks:</b> NGA cost estimates and schedule planning are done by system not budget project. Development funding for an individual system can cross multiple NGA projects and Expenditure Centers based on the system element. Cost estimates and schedule milestones for all NGA Major System Acquisitions are provided in the Acquisition Summary section of the budget										

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Exhibit R-3: RDT&E Project Cost Analy	sis							Date: Feb	ruary 2010
Project Name: GEOINT Advanced Tech	lology Dev	elopment							
This table is UNCLASSIFIED		Dollars in I	Aillions						
	Contract	Performing	[		FY 2010		FY 2011		
	Method	Activity &	FY 2009	FY 2010	Award	FY 2011	Award	Cost to	
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Complete	<b>Total Cost</b>
									0.0
									0.0
Subtotal Product T&E			0.0	0.0		0.0		0.0	0.0
Remarks:									
									0.0
									0.0
Subtotal Management			0.0	0.0		0.0		0.0	0.0
Remarks:			J			L		J	
Total Cost			0.0	0.0		0.0		0.0	0.0
Remarks:									

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Exhibit R-4: RDT&	εE Pr	oject	Sched	ule Pr	ofile	······																	Date:	Feb	ruary	2010		
Project Name: GE	DINT	Adva	nced 🛛	<b>Fechn</b>	ology	Devel	opmen	nt				_	_															
This table is UNCL	ASSI	FIED																										
Fiscal Year		FY	2009			FY	2010			FY	2011			FY:	2012			FY	2013			FY:	2014			FY	2015	
	1	2	3	4	1_1_	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	_4
N/A																												
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		$(\mathfrak{F})$	(1)						
. MISSION DESCRIPT	ION AND PROJ	ECT JUS	IFICATIO	JN:					
J//FOUO) The GEOINT R	esearch and Tech	noiogy ⊨na rob & Toobr	ablers Proje	ondituro	Contor	arcn into	a broad arr	ay of technics	d National
hable other activities within system for Geospatial-Intell	idence (NSG) na	thers in fac	ilitating tecl	hnology	transfer	and inset	fian enyay	es NGA an	
)irectorate and the NSG.	igonioo (noo) pu		intering too	mology	anoror				
					·				
Y 2009 Accomplishment	<u>s:</u>								
(U//FOUO) Continued ope	eration of an inno	vative and e	effective lab	oratory	test bed	environm	ient to mode	el, prototype	e, test, and ra
Sert new GEUINT technol	bpology transition	G. Land netwo	vrk laborato	ripe to d	omonetre	ato now o	ollaborative	onalveie fo	ole and
anahilities	inology transition				GINUNSU			anaiyoio id	
(U//FOUO) Managed aca	demic research a	rants and u	tilized comr	nercial a	nd collai	borative r	partnerships	s to demons	strate new
BEOINT capabilities.	0						•		
(U//FOUO) Prototyped tee	chnologies that er	nerged fron	n IT monito	ring and	leveragi	ng applic	ations deve	loped by in	dustry and
cademia, as well as from r	esearch portfolios	8.							
(U//FOUO) Conducted NS	SG R&D forums a	nd sympos	iums to ena	ble robu	ist matur	ation of t	he NSG R&	D Roadma	p <b>.</b>

EXHIBIT R-2: RDT&E Item Budget Justification

Project Name: GEOINT Research and Technology Enablers

This table is '

FY 2010 Planned Project:

(U//FOUO) Continue operation of an innovative and effective laboratory test bed environment to model, prototype, test, and rapidly insert new GEOINT technologies into the NSG.

(b)(b)

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DATE: February 2010

• (U//FOUO) Continue prototyping technologies that emerge from IT monitoring and leveraging applications developed by industry and academia, as well as from research portfolios.

(U//FOUO) Continue to conduct NSG R&D forums and symposiums to enable robust maturation of the NSG R&D Roadmap.

(U//FOUO) Continue to manage academic research grants and utilize commercial and collaborative partnerships to demonstrate
new GEOINT capabilities.

#### FY 2011 Planned Project:

(U//FOUO) Provide a distributed, collaborative, network-centric lab environment and support technology transition.

• (U//FOUO) Continue to oversee academic research grants and utilize commercial and collaborative partnerships to demonstrate new capabilities.

• (U//FOUO) Continue to prototype technologies that emerge from IT monitoring and leveraging applications developed by industry and academia, as well as from research portfolios.

• (U//FOUO) Continue to conduct NSG R&D forums and symposiums to enable robust maturation of the NSG R&D Roadmap.

(U//FOUO) Provide assessments of opportunities to utilize or leverage commercial and other government IT research.

Exhibit R-3: RDT&E Project Cost Analysis Date: February 2010											
Project Name: GEOINT Research and	l Technolog	gy Enablers									
This table is UNCLASSIFIED								Dollars in N	Aillions		
	Contract	Performing			FY 2010		FY 2011				
	Method	Activity &	FY 2009	FY 2010	Award	FY 2011	Award	Cost to			
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Complete	<b>Total Cost</b>		
									0.0		
									0.0		
									0.0		
Subtotal Product Development			0.0	0.0		0.0		0.0	0.0		
Remarks:											
								·			
		l							0.0		
									0.0		
									0.0		
Subtotal Support			0.0	0.0		0.0		0.0	0.0		
Remarks:											
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Exhibit R-3: RDT&E Project Cost A	nalysis							Date: Feb	ruary 2010
Project Name: GEOINT Research an	d Technology	Enablers							
This table is UNCLASSIFIED								Dollars in I	Aillions
	Contract	Performing			FY 2010		FY 2011		
	Method	Activity &	FY 2009	FY 2010	Award	FY 2011	Award	Cost to	
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Complete	<b>Total Cost</b>
									0.0
									0.0
Subtotal Product T&E			0.0	0.0		0.0		0.0	0.0
						<b>,</b>			
		······						[	0.0
									0.0
Subtotal Management			0.0	0.0		0.0		0.0	0.0
Remarks:									
Total Cost		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.0	0.0		0.0		0.0	0.0
Remarks:									

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Exhibit R-4: RDT&	E Pr	oject	Sched	ule Pr	ofile							·											Date	Feb	ruary	2010	-	
Project Name: GEO	DINT	Resea	rch a	nd Te	chnole	ogy Ei	abler	S															1			· · ·		
This table is UNCL.	ASSII	FIED																			-							
Fiscal Year		FY	2009			FY	2010			FY	2011			FY	2012			FY	2013			FY	2014			FY :	2015	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
N/A																												
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### EXHIBIT R-2: RDT&E Item Budget Justification

DATE: February 2010

Project Name: Facilities

This table is

## A. MISSION DESCRIPTION AND PROJECT JUSTIFICATION:

(U) Pursuant to the BRAC Legislation, NGA is consolidating operations from six locations throughout the National Capital Region (NCR) to one standalone campus, the New Campus East (NCE). RDT&E resources are administered through two activities: (1) NCE Design and Construction and (2) Active IT (AIT).

(U) The NCE Design and Construction contract provides the design, development and construction of what is referred to as "pathways and spaces" as well as workforce re-location. This contract includes the planning, design, site development, and construction of the facility to include completion of the NCE passive IT infrastructure.

EXHIBIT R-2: RDT&E Item Budget Justification	DATE: February 2010
Project Name: Facilities	
This table is $(\mathcal{F})$	-
FY 2009 Accomplishments:	
<ul> <li>(U//FOUO) Conducted Technology Center Critical Design Review (CDR)</li> <li>(U//FOUO) Conducted Technology Center Operational Readiness Review (ORR)</li> <li>(U//FOUO) Completed Final Acceptance Test Procedures</li> <li>(U//FOUO) Validated Test Procedures in lab</li> <li>(U//FOUO) Defined User Facing requirements</li> <li>(U//FOUO) Conducted User Facing Critical Design Review (CDR)</li> <li>(U//FOUO) Completed 'Award to Baseline' requirements</li> <li>(U//FOUO) Completed preliminary design</li> <li>(U//FOUO) Completed validation testing in Multi Use Technology Lab (MTL)</li> <li>(U//FOUO) North Building Surveys and Installation preparation</li> <li>(U//FOUO) Began Tech Center installation and testing</li> <li>(U//FOUO) Began Operations and Support Transition Planning</li> </ul>	
FY 2010 Planned Project:	
<ul> <li>(U//FOUO) Complete final design</li> <li>(U//FOUO) Complete Tech Center installation and testing</li> <li>(U//FOUO) Verification and validation of Tech Center</li> <li>(U//FOUO) Complete South Building AIT installation and test</li> <li>(U//FOUO) Conduct South Building Operational Readiness Review (ORR)</li> <li>(U//FOUO) Complete North Building Riser Fit Out</li> <li>(U//FOUO) Begin North Building Floor Space Fit Out and AIT Testing</li> <li>(U//FOUO) Operate and sustain Technology Center and building spaces</li> </ul>	

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EXHIBIT R-2: RDT&E Item Budget Justification	DATE: February 2010
Project Name: Facilities	
This table is (5)(1)	
FY 2011 Planned Project:	
(U//FOUO) Complete North Building Floor Space Fit Out	
• (U//FOUO) Complete North Building AIT Installation and Testing	
• (U//FOUO) Complete Mission re-deployment	
• (U//FOUO) Complete BRAC consolidation	

EXHIBIT	R-2: RDT	C&E Item H	Budget Just	ification				DATE: H	ebruary 2	010		
Project Na	ame: Facil	ities						Dollars in	Millions			
This table	is											
<b>B. Project</b> (U) FY 201 Acquisition Production	Change Su 1 change d War Room and Source	ummary: lue to realig a, East Oper e System (C	nment of fur ations Cent COMPASS)	nding to cor er, Auditoriu and Naval A	nplete the N um and Cor Activities Su	NCE AIT des nference Ro upport Progr	sign require om, Securit am Networ	d for the Dir y Control C k (NASPnet	rector's Cor enter, and ( ) Operation	iference Ro Collaborativo s Center.	om, ə Map	
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EXHIBIT R-2: RDT&E Item Budget Justification	DATE: February 2010
Project Name: Facilities	Dollars in Millions
This table is (1)	
D. Acquisition Strategy:	
(U//FOUO) NGA acquisition, management, and contracting strategy fundamentals are used Acquisition Instructions, DoD 5000, Directive 7, Federal Acquisition Regulations (FAR), and and open competition to the maximum extent possible. NGA participates in market survey that effective and efficient decisions are made on the front-end and in the Electronic Comm possible. Through the NGA Acquisition Center, NGA can take advantage of our mission pa practices, thus allowing NGA key components to utilize outside resources. NGA also coord memoranda of agreements and open forum interaction.	d. NGA adheres to guidance outlined in the NGA I FAR Supplement Policies and Procedures. There is full type activities to the maximum extent possible to ensure erce markets via the Internet to the maximum extent artner's acquisition center facilities, training, tools, and best linates joint projects with mission partners through
(U) Technical Performance Metrics (TPM) reporting will consist of values estimated or meas analytical estimates, produced from modeling, simulation or analysis occurring during the S indicators for Milestone Decision Authority success, risk management activities, and design	sured and reported monthly. TPMs will evolve from systems Engineering lifecycle. TPMs serve as early n trade-offs.

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Exhibit R-4: RDT&E Project Schedule Profile																							Date	Feb	ruary	2010		
Project Name: Facilities																									•			
This table is UNCLASSIFIED//FOUO									<u> </u>												r							
Fiscal Year		FY	2009			FY	2010			FY	2011			FY	2012			FY	2013			FY:	2014			FY 2	2015	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Planning & Engineering:																					ĺ	[						
- Award to Requirement Baselined QTR2 08- QTR2 09																•				1								
- Installation and Mission Redeployment							ļ					$\cap$						l	L		ļ	l	L	L <sub>1</sub>				
																			maleted	<u>Key</u>	T_							
Design:																			inpiciou	micaro	103							
- Initial QTR4 08 (completed in FY08)							(		ľ								2	<b>X</b> 1	Jpcomin	g milest	oues							ł
- Preliminary QTR2 09							ļ										2	) в	ission re RAC Co	-deploy mpletio	ment co: n	mplete,						
- Final QTR1 10																		}	}			[						ļ
Verification:							Ι.																				_	
- Lab Startup QTR4 08 (completed in FY08)																												
- Tech Center V&V QTR1 10																						{						
- Main Building V&V QTR2 10						4																-						ļ
Installation:																												
- Tech Center Install QTR4 09 - QTR2 10				<u> </u>			}		ļ									ļ										
- Main Building Install QTR3 10 - QTR1 11		l					~		A																		Ì	

Exhibit P-5: Cost Analysis			Date: Fo	ebruary 20	)10	
Project Name: NSG Operational Systems						
This table is UNCLASSIFIED//FOUO						
	FY	2009	FY	2010	FY	2011
Procurement Initiatives	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
N/A.						
PROCUREMENT COST		0.0		0.0		0.0
<b>Remarks:</b> Development activities funded within this acquisitions and thus ODNI CAIG cost estimates are r	project do no not available.	ot meet the	threshold	l for major	systems	

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Exhibit P-5a: Procurement History and Planning							Date: Feb	ruary 2010		
Project Name: NSG Operational Systems										
This table is UNCLASSIFIED										
Programment Initiatives	Ofv	Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
FY 2009	2.5				~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			2011019		
N/A										
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FY 2010			[						<u> </u>	
N/A										
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Exhibit P-5a: Procurement History and Planning						,	Date: Febr	uary 2010		
Project Name: NSG Operational Systems										
This table is UNCLASSIFIED										
					Contract			Date of	Tech Data	Date
		Unit	Location	RFP Issue	Method and	Contractor	Award	First	Available	Revisions
Procurement Initiatives	Qty	Cost	of PCO	Date	Туре	and Location	Date	Delivery	Now?	Available
FY 2011										
N/A										
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Initial Production Schedule         Operational Systems         PRODUCTION RATE       PROCUREMENT LEADTIMES         PRODUCTION RATE       PROCUREMENT LEADTIMES         Manufacturer's       MSR       ALT Prior to ALT After       Initial Mfg       Reorder Mfg         PLT       Total       Unit of Mensure         PY 2009       FY 2009       FY 2010       FY 2010         Image: Span="6">Image: Span="6" Image: Span="6" Imag																														
Project Name: NSG Opt	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $																													
This table is UNCLASSI	FIED																													
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Item			Name	and Lo	ention				SR	EC	CON	M	AX	Oct 1			Oct	<u> </u>		PLI	r		PLT_			_Total		Unit	of Mea	sure
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·		<u> </u>				EY 200	10	J		L								FV	2610	L			L		I			L		
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$ \begin{bmatrix} S & Q & B & B & O & N & B & J & F & M & A & M & J & J & A & S & O & N & B & J & F & M & A & M & J & J & A & S & B \\ F & V & T & E & A & C & O & E & A & E & A & P & A & U & U & U & E & C & O & E & A & E & A & P & A & U & U & U & E & A \\ Stormificant End Herms & Y & C & Y & L & L & T & Y & C & N & B & R & R & Y & N & L & G & P & T & Y & C & N & B & R & R & Y & N & L & G & P & T & Y & C & N & B & R & R & Y & N & L & G & P & T & Y & C & N & B & R & R & Y & N & L & G & P & L & U & U & E & A \\ \end{bmatrix} $																														
Significant End Items	ifficant End Items Y C Y L L T V C N B R R Y N L G P T V C N B R R Y N L G P L																													
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						FY 201	1	L	L	<b>.</b>		L	I	.L	<u> </u>		L	FY	2012	L			L	ſ	l	L		L	L	L
							<u> </u>		2011					· · ·							2012	2								
	T	S	Q	D	B	0	N	D	J	F	M	A	M	J	J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	B
}	F	v	Т	E	A	C	0	E	A	Е	A	P	A	U	U	U	E	C	0	E	A	Е	A	P	A	ប	U	U	E	A
Significant End Items	Y	C	Y	L	L	T	v	C	N	B	R	R	Y	N	L	G	P	Т	V	С	N	В	R	R	Y	N	L	G	P	L
N/A			<u> </u>		L	ļ		ļ		L	ļ																	L		
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Exhibit P-5: Cost Analysis			Date: Fo	bruary 2	010	
Project Name: NSG Enterprise Modernization						
This table is UNCLASSIFIED						
	FY	2009	FY	2010	FY	2011
	Unit	Total	Unit	Total	Unit	Total
Procurement Initiatives	Cost	Cost	Cost	_Cost_	Cost	Cost
<u>N/A</u>						
	·					
·						
					·	
· · · · · · · · · · · · · · · · · · ·		, 				
PROCUREMENT COST		0.0	· · · · · · · · · · · · · · · · · · ·	0.0	<del>_</del>	0.0

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Exhibit P-5a: Procurement History and Planning							Date: Feb	ruary 2010		
Project Name: NSG Enterprise Moderization										
This table is UNCLASSIFIED										
Procurement Initiatives	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
FY 2009								· · · · ·		
N/A								·		
FY 2010										
N/A										

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Exhibit P-5a: Procurement History and Planning							Date: Feb	ruary 2010		
Project Name: NSG Enterprise Moderization										
This table is UNCLASSIFIED										
Procurement Initiatives	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
FY 2011	··		<u> </u>		<u>`</u>	·····			[	
N/A										
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Exhibit P-5: Cost Analysis			Date: Fe	ebruary 20	)10	
Project Name: Connectivity						
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	FY	2009	FY	2010	FY	2011
	Unit	Total	Unit	Total	Unit	Total
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Remarks: Activities funded within this project do not ODNI CAIG cost estimates are not available.	meet the three	shhold for r	najor syst	ems acqui	sitions and	d thus

Exhibit P-5a: Procurement History and Planning						·	Date: Feb	ruary 2010		
Project Name: Connectivity										
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					Contract			Date of	Tech Data	Date
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Exhibit P-21: Productio	n Sche	dule														Date	e: Fe	brua	ry 2	010										
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Exhibit P-40: Budget Item Justification

Project Name: Systems Maintenance

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• (U) Procurement resources support acquisition of NGA's infrastructure requirements such as desktop workstations, servers, and printers.

Date: February 2010

• (U) Procurement resources also provide for the acquisition of enterprise licenses required to support mission systems.

Exhibit P-21: Production	ibit P-21: Production Schedule Date														Date: February 2010																
Project Name: Systems M	Iainte	nance					-																								
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#### Exhibit P-40: Budget Item Justification

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#### **Project Name: Facilities**

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**Description:** 

• (U//FOUO) PDW is executed on the Active IT (AIT) contract. NGA's AIT Contract is used to acquire IT Infrastructure services, hardware, and software to implement, operate and sustain a robust, uniform and stable NGA NCE IT infrastructure. This acquisition is part of the effort to allow NGA to accomplish its scheduled move to the NCE by 11 September 2011. The AIT implementation, as well as the operations and sustainment phases of the acquisition, will be performed at the NCE. Funding ends in FY 2011 reflecting the completion of initial outfitting of NCE AIT. Operations and sustainment is funded in the Enterprise IT Systems Expenditure Center.

Date: February 2010

• (U//FOUO) During the AIT contract period of performance, procurement funds will be used to purchase administrative workstations, production workstations, servers, phones, peripherals, and storage capacity. The storage will be a combination of Network Attached Storage, Storage Area Network and Central Authentication Services, and will allow for multiple tiers of storage as well as multiple retrieval speeds. Purchasing this equipment will enable NGA's move towards a more virtualized environment, giving more flexibility and responsiveness to the entire enterprise mission along with real time capabilities for time dominant operations and capability replication. The purchase and installation of the new equipment will ensure forward and backward generation compatibility.

Exhibit P-21: Production	ibit P-21: Production Schedule Dat														Date	Date: February 2010														
Project Name: Facilities																			-											
This table is UNCLASSIF.	IED									-																				
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# (U) GLOSSARY

(U) Active Earthscape—A contracted prototype system that provides rapid generation of orthorectified data.

(U//FOUO) Aereon—A COTS-based software capability that receives and parses multiple text-based data inputs in order to alert and notify users that information they requested has been received.

(U) AES-AGI Exploitation Services

(U) AFE—Automated feature extraction. A term encompassing automated processing techniques that can recognize and extract geographic features in imagery to enhance the outline and definition of the features; typical methods are feature-to-background contrast or using pattern recognition software.

(U) AGI—Advanced geospatial intelligence. The technical, geographic, and intelligence information derived through interpretation or analysis using advanced processing of energy in the electro-magnetic spectrum collected by imagery or imagery-related collection assets. Formerly known as imagery-derived MASINT.

(U) AGIA—Advanced geospatial intelligence analysis

(U) AGP-Advanced GEOINT processor

(U) AITS—Applied IT Solutions program (NGA)

(U) AOR—Area of responsibility

(U) ARG—Advanced Radar GEOINT

(U) AT/FP—Antiterrorism/force protection

(U) ATR-Automated Target Recognition

(U) BCP---Business continuity planning

(U) C&A---Certification and accreditation

(U) CAE—Component Acquisition Executive

(U) CASi—Consolidated Analytic Spatial initiative

(U) CASi-F-Consolidated Anaytic Spatial initiative-Forward. Forward-deployed version of CASi.

(U) CDD-Capability development document

(U) CDP-Commercial data provider

# (U) CIB—Controlled imagery base

(U) CINF—Community Information Needs Forecast. A planning document that includes operational scenario scripts and supporting documentation to enable NGA's Future Forecasts and Analysis office to better define the future NSG operating environment.

(U) CJCS—Chairman of the Joint Chiefs of Staff

(U) COG—Continuity of Government

(U) CRS---Commercial remote sensing

(U) CRSP-Commercial Remote Sensing Program

(U) D&R-Disclosure and release

(U) DAWIA-Defense Acquisition Workforce Improvement Act

(U) DEAP-Deployed and externally assigned personnel

(U) DEM—Digital Elevation Map

(U) DFAS-Defense Finance and Accounting Service

(U) DMIGS—Domestic Mobile Integrated GEOINT System. A GEOINT hardware, software, and communications suite mounted on an emergency vehicle chassis that merges imagery and intelligence data for specialized operational support at CONUS sites.

(U) DoDI-DoD Instruction

(U) DOS—Department of State (US)

(U) DPPDB-Digital Point Positioning Database

(U) EC—Expenditure Center. An organizational level in the Capabilities Programming and Budgeting System (CPBS) hierarchy. During NIP budget builds, funding profiles are developed for each project within each EC.

(U) EE—Enterprise Engineering (NGA)

(U) EEO—Equal employment opportunity

(U) ELS-Extended learning sites

(U) ENII-Enterprise Network Infrastructure Initiative

(U) EO-Electro-optical

(U) ePODS-Enterprise Product on Demand Services

(U) ERM—Earth reference model. A digital model of the Earth that includes all geospatial, precision point, and imagery-derived intelligence data in a common structure.

(U) ESC—Enterprise Service Center (NGA). Provides customer and technology services support for NGA IT users.

(U) EVM—Earned value management

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(U) FBO—Foundation based operations

(U) FCD—Federal Continuity Directive

(U) FCI—Facilities Condition Index

(U) Feature data—A portrayal of man-made and natural features commonly associated with map-like products. It includes, but is not limited to hydrography, vegetation and man-made structures, such as communications lines, buildings, and dams.

(U) FEMA—Federal Emergency Management Agency

(U) FISMA—Federal Information Security Management Act. Federal law requiring an annual report on the effectiveness of information controls over systems and networks supporting NGA operations and assets.

(U) FM-Financial Management Directorate (NGA)

(U) FOC-Full operational capability

(U) Fort Belvoir Area North-formerly known as Fort Belvoir Engineering Proving Ground.

(U) Foundation data—A portrayal of basic information about the earth—including orthoimagery, point positioning data, topographic and nautical features, elevation data and bathymetry, geodetic information, safety of navigation data, and baseline demographic information—for which NGA assures availability and currency globally, or near-globally, independent of specific mission needs.

(U) FSRM-Facilities sustainment, restoration and modernization

(U//FOUO) GEOCOM—National GEOINT Committee. An IC committee chaired by NGA that promotes cross-discipline collaboration on GEOINT issues, and provides an IC forum to ensure that GEOINT plans, programs, and operations are responsive to mission partner needs and are aligned with DNI objectives.

(U) GEOINT—Geospatial intelligence. An intelligence discipline defined as the exploitation and analysis of imagery and geospatial information to describe, assess, and visually depict physical features and geographically-referenced activities on Earth. GEOINT includes imagery, imagery intelligence, geospatial information, imagery-derived MASINT (AGI), and imagery-derived products.

(U) GEONAMES—Geographic names

(U//FOUO) GeoScout—A contract vehicle to implement systems integration to support NSG transformation and modernization.

(U) GGI--Global Geospatial Intelligence

(U) GIMS-GEOINT Information Management Services (GeoScout)

(U) GIS—Geographic Information System. A system that integrates, analyzes, edits, displays and stores geographically-referenced information. A "smart map" tool is a GIS application that allows users to create interactive queries, analyze the spatial information, and edit data.

(U) GKB--GEOINT Knowledge Base

(U) GMTI-Ground moving target indicator

(U) GPS-Global positioning system

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(U) GRTE-GEOINT Research & Technology Enablers

(U) GSA—General Services Administration

(U) GVS-GEOINT Visualization Services

(U) HCP—Human Capital Plan

(U) HD—Human Development Directorate (NGA)

(U) HLD-Homeland defense

(U) HLS-Homeland security

(U) HRTe—High resolution terrain elevation

(U) HSI—Hyperspectral information/imagery. Spectral information contained in (nominally) hundreds of separate bands within the spectral band pass of a sensor. Hyperspectral data tends to have a higher spectral resolution than multispectral information, which refers to spectral information contained in (at most) tens of separate bands. Hyperspectral and multispectral information allow analysts to identify materials based on the spectral signature/content of the energy they radiate.

(U) HSPD-Homeland Security Presidential Directive

(U) IA—Information Assurance

(U) ICA—Intelligence collection architecture. Effort led by the ADDNI for Architecture Engineering and Integration to assesses proposed IC collection architectures and programs from an integrated mission-focused perspective.

(U) ICOOP—Imagery Continuity of Operations

(U) IDS-D—Information Dissemination Services-Direct Delivery. Portion of the NSG architecture that serves as the time dominant dissemination capability. (U) IEC—Integrated Exploitation Capability. Suite of hardware and software that integrates exploitation and production system functionality into the NSG.

(U) IED—Improvised explosive device

(U) IESS—Imagery Exploitation Support System. A modular, client-server based system that supports exploitation requirements, hardcopy and softcopy imagery exploitation, historical coverage of imagery, and dissemination management for the COCOMs, Services, Agencies, and ground, air, and naval units worldwide.

(U) IMS-Information Management Services (GeoScout)

(U) IOC-Initial operational capability

(U) IOC-D—Integrated Operations Center-Denver

(U) IOC-NGA: Integrated Operations Center-NGA. Provides critical situational-awareness of GEOINT activities and mission essential information across NGA and NSG partners. The operational concepts include incorporating GEOINT reporting into the overall status of NGA's posture, reporting critical events impacting NGA personnel, facilities, systems, constellation and security related issues and maintaining the NGA 24-hour watch both in Bethesda, MD, and Saint Louis, MO.

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(U) IPL—Image Product Library. An image and imagery product storage, query, and retrieval system that provides user access to networked National GEOINT Libraries.

(U) IRTPA-Intelligence Reform and Terrorism Prevention Act

(U) ISP---Infrastructure services provider

(U) ISSO---Information Systems Security Officer

(U) IT/IS-Information Technology/Information Services

(U) ITC—Interim Transition Capability. A facility to house NGA IT systems and data during NGA's transition to the NCE. The ITC will assure continuity of NGA mission operations during the transition.

(U) ITF—Integrated Test Facility

(U) JSCP—Joint Strategic Capabilities Plans.

(U) JTF-GNO-Joint Task Force-Global Network Operations

(U) L/H—Legacy/heritage (in reference to IT systems)

(U//FOUO) LEAR JET—A CI network monitoring tool to combat the cyber insider threat.

(U) LIDAR—Light detection and ranging. An imaging technique that provides three-dimensional data on a target by emitting a series of short laser pulses and detecting the backscattered light.

(U) LMR—Land mobile radio

(U) M&S---Modeling and simulation

(U) MC&G—Mapping, charting, and geodesy

(U) MCIA—Marine Corps Intelligence Activity

(U) MD—Expeditionary Operations Directorate (NGA)

(U) MDA—Maritime domain awareness

(U) METOC-Meteorological and oceanographic

(U) MO-Mission Objective (NIS)

(U) MR—Mission Readiness Directorate (NGA)

(U) MSA—Major system acquisition

(U) MSI—Multispectral information/imagery. MSI refers to spectral information contained in at most tens of separate bands. MSI allows analysts to identify materials based on the spectral signature/content of the energy they radiate. (See hyperspectral information/imagery (HSI).)

(U//FOUO) MTL—Multi-use technology laboratory. A contractor-owned facility in Oakton, VA, that supports NCE system integration and testing (such as equipment burn-in, requirements verification, C&A, and independent verification and validation). The MTL is required to mitigate the risk due to the timeline for integrating systems targeted for the NCE and the timeframe in which the NCE Technology Center will become available.

(U) MTT—Mobile training teams (NGA)

(U) NASIC-National Air and Space Intelligence Center

(U) NAVO-Naval Oceanographic Office

(U) NCE—New Campus East. BRAC 2005, which became law in November 2005, directed consolidation of NGA's east coast sites (Washington Navy Yard, Bethesda, Reston, Newington, Fort Belvoir NGA College, and Westfields) at a new campus at Fort Belvoir's Engineering Proving Grounds in Springfield, VA, by 15 September 2011.

(U) NCPC-National Counterproliferation Center

(U) NCTC---National Counterterrorism Center

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(U) NDS—NGA Deployable System. A set of interoperable systems that can operate in a variety of environments. Used by forward-deployed NGA analysts.

(U) NEA—NSG Expeditionary Architecture

(U) NES—National Exploitation System. Provides support for hardcopy and softcopy imagery exploitation, exploitation requirements and dissemination management, historical coverage, plotting, mensuration, and dissemination of NGA GEOINT products. Contains historical imagery intelligence reports and interfaces to RMS.

(U//FOUO) NextView—NGA contractual agreements with commercial providers for the purchase of licenses and commercial data from commercial imagery satellites.

(U) NGANet—A common SCI communications infrastructure that provides SCI electronic connectivity for most NGA employees.

(U) NGC---National Geospatial-Intelligence College

(U) NGDS—Net-centric GEOINT Discovery Services

(U) NIL—National Information Library. An IC asset that supports dissemination of and access to national-level imagery, imagery-based products, geospatial information, and metadata at both the SC and SCI levels.

(U) NIPF—National Intelligence Priorities Framework

(U) NMIP---Nuclear Materials Information Program

(U) NSG—National System for Geospatial-Intelligence. The integration of technology, policies, capabilities, and doctrine necessary to conduct GEOINT in a multi-intelligence environment.

(U) NSI-Network Stabilization Initiative

(U) NSPD—National Security Presidential Directive

(U) NST—NGA Support Team(s). Groups of NGA personnel that are forward deployed around the world in response to national and departmental requirements, providing enhanced support to decisionmakers and warfighters. Some permanent NSTs are located at major agencies and commands, while other "temporary" NSTs are located with deployed units.

(U) NTT----National to theater

(U) OCC—Office of Corporate Communications

(U) OCIO-Office of the Chief Information Officer (NGA)

(U) OCO—Overseas Contingency Operations

(U) ODE—Office of Diversity Management and Equal Employment Opportunity (NGA)

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(U) OGC---Open Geospatial Consortium

(U) OGC—Office of the General Counsel (NGA)

(U) OIG—Office of the Inspector General (NGA)

(U) ONI—Office of Naval Intelligence

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(U) Orthomosaics—The result of taking two or more images and "stitching" them together into a single image that is then corrected for distortions (orthorectified).

(U) Orthophotos—"Photomaps" that do not contain scale, tilt, or relief distortions. They offer analysts a product that can be readily interpreted like any air photo, but distances, angles, and areas can be measured directly without further processing. All monoscopic images must be orthorectified prior to use. Orthorectification works by using the position information of the sensor combined with a digital elevation model to remove terrain effects from the image.

(U//FOUO) Orthorectification—A method of processing remotely sensed imagery to remove scale, tilt, or relief distortions, thereby rendering an imagery product similar to an air photograph—one that is readily interpreted by analysts, since distances, angles, and areas in the image can be measured directly, without further processing.

(U) PED-Processing, exploitation, and dissemination

(U) PfM—Portfolio management

(U) PI—Polarimetric imagery/imaging. Refers to sensors whose output varies as a function of the degree of polarization of the electromagnetic energy in its input. PI also refers to processing and exploitation capabilities that take advantage of the polarization information received from the sensor. Light radiated from manmade material tends to be polarized differently from light from natural material. PI information allows the analysts to discriminate between materials in the image.

(U) PKI—Public key infrastructure. Combination of hardware, software, people, policies, and procedures needed to create, manage, distribute, and revoke IT security certificates.

(U) PM—Program manager

(U) PMAA—Production Management Alternative Architecture. Provides a geospatial production information management capability based on a series of COTS tools.

(U) PMP—Program management plan

(U) POP—Point of Presence
## (U) PRC-People's Republic of China

(U) R&T-Research & Technology

(U)RMS—Requirements Management System. The primary system used by intelligence organizations at the national, command, and unit levels to manage and task existing national and DoD imagery collection assets.

(U) RRS—Remote Replication System

(U) RTM—Resource Tasking Marketplace

(U) SAR—Synthetic aperture radar. An airborne/spaceborne radar imaging system that can image day and night and can penetrate clouds. SAR requires a moving platform, such as an aircraft or satellite, to "synthesize" an aperture for image formation. SAR is an "active" system, providing its own target illumination via pulses of microwave energy. Many pulses are processed using signal processing techniques to produce a single image.

(U) SBUNet—Sensitive but Unclassified Network. NGA's common unclassified desktop computer network.

(U) SECNet-Secret Network

(U//FOUO) SCRM—Supply Chain Risk Management. An approach to mitigating threats to NGA's supply chain emanating from Foreign Intelligence and Security Services, insider threats, and cyber attacks. The supply chain includes where products are manufactured, where they are stored, the transportation assets used to move products, terminals used for shipping, offloading facilities, and logistics points where the product may be repackaged for further delivery. SCRM looks at the entire Acquisition Process (from concept to production) to identify and mitigate negative impacts that may occur if the product is tampered with in any way to include planting listening devices or installing malicious code.

(U) SFC—Source Fusion Center

(U) SIP-Strategic Implementation Plan

(U) SI—System Integration

(U) SLA—Service level agreement

(U) SOA-Service-oriented architecture

(U) SOS—System of systems

(U) STIL—Saint Louis Information Library

(U) STS-Synthetic aperture radar (SAR), thermal, and spectral

(U) SWP—Strategic workforce plan

(U) TCPED-Tasking, collection, processing, exploitation, and dissemination

(U) TFDM—Topographic Features Data Management
(U) TIGS—Transportable Integrated GEOINT System
(U) TLM—Topographic Line Map
(U) TMC—Threat Mitigation Center (NGA)

(U) TPC-Tactical Pilotage Charts

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(U) WAN—Wide area network. A communications network connecting geographically separated locations that use long-distance links of third party telecommunications vendors.

(U) WARP---Web-based Access and Retrieval Portal

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