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# STATEMENT OF WORK Telecommunications Technical Support Services

# 1 Background:

# 1.1 Introduction:

The traditional circuit-switched network, called the Public Switched Telephone Network (PSTN), mainly supports voice services. It is being transitioned to a packet-switched network, called the Next Generation Network (NGN), which will support voice and broadband services over wireline backbone networks with wireline and wireless access networks. NGN will make use of Quality of Service (QoS) enabled transport technologies, in which service-related functions are independent of the underlying multiple broadband, transport technologies.

Presidential Executive Order 12472 (EO 12472) directs the Office of the Manager, National Communications System (OMNCS) to "...include planning for, developing, and implementing enhancements to the national telecommunications infrastructure to achieve measurable improvements in survivability, interoperability, and operational effectiveness under all conditions and seeking greater effectiveness in managing and using national telecommunication resources to support the Government during any emergency." In addition, the President's National Security Telecommunications Advisory Committee's (NSTAC) Next Generation Network Task Force (NGNTF) Report of March 28, 2006, and subsequent reports, has recommended to the President that the OMNCS include NGN technology in its planning for future national security and emergency preparedness (NS/EP) telecommunications evolutionary programs. The OMNCS' must ensure the seamless transition from PSTN-based Priority Services to NGN-based Priority services.

The OMNCS requires technical support to fulfill the mission of EO 12472, the intent of the Office of Management and Budget (OMB) circular number A-119 on Government participation in voluntary standards development, and NSTAC objectives and recommendations. In general, the support required includes technical studies, analyses and prototype testing; white papers and technical reports; identification or recommendations of standards and Request For Comments (RFCs) with specific functionalities that have good potential for priority service approaches, and technical contributions to non-governmental standards bodies.

# 1.2 <u>Standards Background:</u>

The OMNCS mission requires that NS/EP personnel be offered priority communication services across all networks. Wireless Priority Services (WPS) provide the basis for such priority capabilities in current 2<sup>nd</sup> Generation (2G) wireless networks. The telecommunication industry standards groups are addressing the evolution of wireless networks from the current 2G/2.5G technologies/systems to 3<sup>rd</sup> Generation (3G), Wireless Fidelity (WiFi), Worldwide Interoperability for Microwave Access (WiMax), IP

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Multimedia Subsystem (IMS), and Long Term Evolution (LTE) based technologies/systems, which will provide greater efficiencies and additional user services. Other wireless networks that may be of interest are Universal Mobile Telecommunications System (UMTS), Wireless Local Area Networks (LAN), Ultra Mobile Broadband (UMB), and satellite. Industry groups are also looking into the structure of Service Level Agreements (SLAs) that will be necessary to spell out performance and quality of service criteria beneficial to users.

As the wireless networks evolve, NGN Priority Services need to be incorporated into the newer technologies and network types. As a result, work is needed to specify the end-toend NGN priority service capabilities for real-time voice, data, video and multimedia communication services. Some of the standards groups where the interests of OMNCS need to be promoted are: 3<sup>rd</sup> Generation Partnership Project (3GPP), 3GPP2, the Alliance for Telecommunications Industry Solutions (ATIS), the International Telecommunication Union (ITU), the Telecommunications Industry Associates (TIA), the Institute of Electrical and Electronics Engineers (IEEE), the Internet Engineering Task Force (IETF), the European Telecommunications Standards Institute (ETSI), the TeleManagement Forum (TMF), the WiMAX Forum, and similar bodies and security.

# 1.3 Modeling Background:

The OMNCS uses modeling and simulation capabilities to conduct analyses of the evolving public and private telecommunications systems in support of its NGN Priority Services mission. Modeling, Analysis, and Technical Assessments (MATA) maintains a telecommunications infrastructure modeling and analysis capability to identify those assets most critical to the successful operation of NGN Priority Services missions, to predict and mitigate the effect of telecommunications failures on the national leadership's ability to communicate during times of crisis, and to conduct studies to quantify the dependence of critical government networks on existing and new telecommunications technologies. MATA must continually model, simulate, and analyze telecommunications networks. This task will provide OMNCS with expertise and updated information about the changing telecommunications infrastructure, helping to resolve gaps in the current suite of tools, and effectively manage additional modeling and simulation capabilities.

# 1.4 Cable Infrastructure Background:

The OMNCS has developed undersea cable infrastructure (UCI) analysis and health assessment capabilities that help influence network design and services to further the NGN Priority Services mission. Because of significant dependence of the global telecommunications network on undersea cable transport, the OMNCS must continually review the resiliency and survivability of this critical infrastructure. This task will provide OMNCS with ongoing analyses of this infrastructure; assistance in the development of a mitigation, warning, and verification process and plan; modeling of failures and restoration; and analysis of alternative transport capabilities.

# 1.5 <u>Security Background:</u>

To support voice, data, and video, services, various telecommunications standards bodies have specified NGN architectures based on the 3GPP IMS. These new distributed architectures introduce a new set of risks for the NGN itself and the interconnection to the legacy PSTN.

The OMNCS has responded to this major shift in the telecommunications infrastructure by working to define NGN Priority Services for NGN/IMS networks. It is critical that security risks in access networks and the core network be mitigated up front to protect the users and services from unauthorized use, and service availability and integrity exploits. It is also critical to understand the security needs of service providers, who have vested interests in protecting their networks and customers, and the OMNCS and its authorized service users, who have specific security needs associated with the NGN Priority Services being provided.

# 2 Tasks:

Various task deliverables and delivery schedules are shown at end of this section.

## 2.1 Task 1: Program Management

- A summary of resource expenditures for all tasks (including a breakdown of the individual cost elements i.e. OMNCS program management support, program review/auditing, contracts management, strategic planning, etc). The core objective is to show an association between contract expenditures and task order deliverables.
- An overview of work completed, in progress, and planned for each task.
- A Microsoft Excel spreadsheet (exact format will be provided upon task order award) that includes the following:
  - o Labor hours expended by task, name, and labor category.
  - Other Direct Costs (ODC) and Travel Expenses incurred. Supporting documentation may be requested, as necessary, by the Contracting Officer's Technical Representative (COTR).
- 2.1.1. Conduct an initial kickoff Technical Interchange Meeting (TIM) within 15 business days after formal acceptance of this contract to review tasks requirements and establish firm dates for the tasks identified in section 3 of the deliverable schedule.
- 2.1.2. Provide Project Management Plans for the individual tasks in Microsoft (MS) Project format with appropriate Work Breakdown Structures (WBS) that reflect resources by labor category, milestones, project start/completion dates, and other applicable information to assist the Government Program Manager (PM) or Tasks Manager (TM) in assessing costs, budget, and schedule.

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- 2.1.3. Hold Quarterly Program Reviews (QPRs) within 15 business days and deliver Monthly Status Reports (MSRs) within ten business days of the end of the quarter or month. At a minimum, MSRs should include the following:
  - Tasks worked, hours expended on tasks and labor categories used per task
  - An overview of work completed, in progress, and planned
  - Identification of problem areas with recommended remedial actions
  - Summary of resource expenditures
  - Status of all issues identified during the course of the last review
  - Other Direct Costs (ODCs)

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- Minutes of meetings attended
- Other items as required by the Government PM or TM

## 2.2 Task 2: Technical Assessments, Analyses, Studies, White Papers and Reports

As telecommunications network technologies continue to evolve and are implemented in the public switched network, numerous network improvements are expected. Such improvements cover areas such as wireless, broadband, management, and optical networking technologies. The Government may select specific technical topics related to these improvements for which the contractor shall prepare technical talks or presentations. The results of this work shall also be documented in technical reports, white papers, and briefings.

2.2.1 When directed by the OMNCS, the contractor shall conduct studies to determine how improvements and advances in telecommunications technologies may impact the security of the public network and the mission to provide priority services in emergency/overload conditions. The contractor shall identify major issues of concern that may be associated with the improvement or introduction of new telecommunications technologies and shall recommend approaches to be taken by the Government to reduce overall vulnerability and ensure priority access.

These studies shall be based on the contractor's knowledge of the introduction of these technologies and will emphasize the security vulnerabilities and priority aspects of the architectures for the Government Emergency Telecommunications Services (GETS) application, extending to NGN Priority Services applications. Contractor's analysis will also support network security information exchange (NSIE). Topics to be reported on may include, but are not limited to, advances related to presence, messaging, identity management, software defined radios, new wireless technologies, Automatic Switched Transport Networks (ASTN), Application Programming Interface (API) based service creation environments, emerging protocols (e.g., Session Initiation Protocol (SIP) and DIAMETER (is a protocol that authenticates remote dial-up users), network timing and synchronization, network controlled intelligent devices, smart cards, voice

recognition, network based storage and computing, network evolution, optical burst and packet switching technology, Gigabit and 10GbE, switching technologies for optical networks, wavelength agility and its applications, transport technologies (e.g., Dense Wavelength Division Multiplexing (DWDM), undersea cable) and quantum cryptography.

- **2.2.2** As required by the Government, the contractor shall propose appropriate capabilities to address shortfalls in NGN Priority Services and provide overviews and analyses of a full spectrum of these technology topics. Additionally, the contractor may be asked to identify technical focus areas in the NGN wireline standards and wireless standards where priority services are not fully addressed or defined.
- 2.2.3 As required by the Government, the contractor shall conduct research that analyzes service survivability mechanisms of emerging broadband IP-based technologies, helping to specify and develop processing priorities and service survivability functionality for these emerging networks, and working on control and restoration regimes that can restore services on a priority basis after a major transport failure event. The work will be applicable to private Government networks, public networks, and integrated private-public networks. The contractor shall also conduct research that analyzes the survivability of the expected architecture of the NGN. Based on a provided set of threat assumptions, the survivability of that network and availability of network resources and bandwidth to support NGN Priority Services applications will be modeled and estimated. These analyses shall be documented in a series of technical reports.

# 2.3 Task 3: Standards

# 2.3.1 <u>ITU-T Study Group 2 (Operational aspects of service provision, networks</u> <u>and performance)</u>

Study Group 2 is responsible for studies relating to:

- principles of service provision, definition and operational requirements of service emulation;
- numbering, naming, addressing requirements and resource assignment including criteria and procedures for reservation and assignment;
- routing and interworking requirements;
- operational aspects of networks and associated performance requirements including network traffic management, quality of service (traffic engineering, operational performance and service measurements);
- operational aspects of interworking between traditional telecommunication networks and evolving networks; and

The contractor shall support the OMNCS with standardization work (e.g., technical contributions, analysis, other technical initiatives) toward the primary objective of fully integrating NGN Priority Services management and information

sharing requirements in emerging commercial telecommunication service capabilities.

# 2.3.2 ITU-T Study Group 11 (Protocols and test specifications)

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Study Group 11 is responsible for studies relating to signaling requirements and protocols for telephony, Intelligent Networks (IN), Integrated Services Digital Network (ISDN), and Broadband ISDN, in addition to signaling support for and interconnection to NGN and IP networks. With respect to signaling, the OMNCS currently identifies two technical work areas of interest as follows:

- Signaling requirements for new, value added, NGN and IP-based services.
- Access, core network and interconnection signaling for advanced services

The contractor shall support NGN Priority Services technical efforts, as stated above, by focusing initial technical efforts on the areas listed above. The contractor shall participate and attend meetings of Study Group 11 and associated NGN-GSI initiatives to provide technical assistance to official OMNCS delegates in the development of Recommendations in the OMNCS interest (e.g., TRQ Recommendations). Contractor support will help ensure that NGN Priority Services functionalities (from the signaling perspective) become part of ITU-T Recommendations. The contractor shall take into account Signaling System No.7 (SS7) interfaces with respect to and interconnection to IP telephony and NGN signaling protocol development, in addition to signaling for IP-to-IP network interconnections. The contractor shall also take into account relevant task objectives, work items, and other study points relevant to NGN Priority Services.

#### 2.3.3 ITU-T Study Group 13 (Future Networks and NGN)

Study Group 13 is the Lead Study Group in the ITU-T for NGN. With respect to this Study Group work effort the OMNCS has identified Questions 5/13 (Architecture) and 15/13 (Security) as the work areas most relevant for the contractor. Advancement of the development of Draft Recommendation Y.2205 R1 (Next Generation Networks – Emergency Telecommunications – Technical Considerations) within Question 5 is the prime document where contractor technical support is needed to assist the OMNCS editor of this draft.

The work of this Study Group, along with the work of Study Group 11, also encompasses NGN Global Standards Initiative (NGN-GSI) events of the ITU-T.

# 2.3.4 <u>ITU-T Study Group 15 (Optical and other transport network</u> infrastructures)

ITU-T Study Group 15, as the lead Study Group on optical technology and access networks is responsible for studies and Recommendations on transport network data, management, and control planes and supporting systems. This work encompasses access and core networks including capabilities and protocols for end user - network interactions. With respect to these capabilities, the OMNCS currently identifies the following Study Group 15 families of standards (Recommendations) that require support: Signaling, Automatic Switched Optical Network, (ASON) Architecture, Ethernet, Routing, and Discovery. If requested by the OMNCS TM, the contractor shall support technical objectives by focusing efforts on these above listed families of standards technical areas.

# 2.3.5 ITU-T Study Group 16 (Multimedia terminals, systems and applications)

ITU-T SG 16 is responsible for studies and specifications relating to multimedia service definition and multimedia systems. It is the Lead Study Group on Multimedia Services, Systems and Terminals. It is also the Lead Study Group on e-business and e-commerce.

Study Group 16 works on the following items:

- Definition of a framework and roadmaps for the harmonized and coordinated development of multimedia communication standardization to provide guidance across ITU-T study groups, and in close cooperation with other regional and international Standard Development Organizations (SDO) and industry forums; these studies include mobility, IP and interactive broadcasting aspects;
- Definition of multimedia protocol and network architectures;
- Operation of multimedia systems and services, including interoperability;
- Protocols for multimedia systems and services (e.g., H.248 and H.246);
- Media coding and signal processing;
- Multimedia terminals including facsimile terminals;
- QoS and end-to-end performance in multimedia systems;
- Security of multimedia systems and services;
- Ensuring end-to-end interoperability between systems and gateways;

The contractor shall support OMNCS by focusing technical efforts on some of the items listed above in support of specifying basic Emergency Telecommunications Service (ETS) capabilities in the network. The capabilities of interest will be coordinated with the contractor efforts in the other relevant ITU-T Study Groups and national standards bodies. Contractor support will help ensure that NGN Priority Services functionalities become part of emerging ITU-T Recommendations. The contractor shall take into account all task objectives, work items, and other Question Study points relevant to NGN Priority Services.

# 2.3.6 <u>ITU-T Study Group 17 (Security languages and telecommunication</u> software)

Study Group 17 has been designated the Lead SG for Telecommunication Security. If requested by the OMNCS, the contractor shall participate in this SG to facilitate and develop security capabilities related to ETS. All efforts will be coordinated with security efforts in ATIS and other Study Groups.

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# 2.3.7 <u>ATIS Network Performance, Reliability and Quality of Service Committee</u> (PRQC)

PRQC develops and recommends standards, requirements, and technical reports related to the performance, reliability, and associated security aspects of telecommunications networks, as well as the processing of voice, audio, data, image, and video signals, and multimedia. PRQC also develops and recommends positions on, and fosters consistency with, standards and related subjects under consideration in other North American and international standards bodies.

If requested by the OMNCS, the contractor shall support the OMNCS with standardization work (e.g., technical contributions, analysis, other technical initiatives) toward the primary objective of fully integrating NGN Priority Services management and information sharing requirements in emerging commercial telecommunication service capabilities. The focus of this work may include assisting PRQC on ETS related topics such as Reliability/Availability and Survivability/Endurability, particularly those for which it is important to achieve consistency with other standards bodies (e.g., PTSC, TMOC, ITU-T Study Group 2). This effort may also include ETS user security requirements and the specification of ETS bearer security capabilities.

## 2.3.8 ATIS Packet Technologies and Systems Committee (PTSC)

The PTSC is presently the key national standards body for the development and specifications of PSTN, NGN and IP-based network services, architectures, signaling/control capabilities, and network interconnection. In addition, it is responsible for the development of security capabilities for signaling and control. A major focus is on the specification of NGN IP-based infrastructures that would support Voice over IP (VoIP) and other services on a carrier's network and between networks. Reliable and secure interconnection and routing between IP networks and between the PSTN and IP networks are of major concern.

Because the PTSC serves as a prime source of USA contributions (on Signaling/Control) to ITU-T Study Group 11, the contractor shall write contributions to Study Group 11 and participate in PTSC meetings. In support of the development and specification of ETS, the contractor shall contribute to PTSC to advance the US standards and liaison activities with other ATIS subcommittees (e.g., PRQC) or other groups (e.g., IETF), as appropriate. The contractor will coordinate with the OMNCS the development of technical contributions to the PTSC intended for these other groups.

# 2.3.9 <u>ATIS Telecommunications Management and Operations Committee</u> (TMOC)

The Telecom Management and Operations Committee (TMOC) develops operations, administration, maintenance and provisioning standards, and other documentation related to Operations Support System (OSS) and Network Element (NE) functions and interfaces for communications networks - with an emphasis on standards development related to U.S.A. communication networks in coordination with the development of international standards

The contractor, if requested by the OMNCS TM, shall support the OMNCS with standardization work (e.g., technical contributions, analysis, other technical initiatives), toward the primary objective of fully integrating NGN Priority Services management and information sharing requirements in emerging commercial telecommunication service capabilities. The focus of this work will be as directed by OMNCS and may include one or more of the following:

- development of USA contributions in support of related ITU-T Study Group 2 management activities (e.g., specification of ETS Management Service);
- Interface specification work to support Telecom Information Sharing and Analysis Center (ISAC) information interchange.

#### 2.3.10 ATIS Optical Transport and Synchronization Committee (OPTXS)

OPTXS serves as a prime source of USA contributions to ITU-T Study Group 15. If requested by the OMNCS, the contractor shall write contributions for, and participate in, OPTXS meetings.

If requested by the OMNCS, the contractor shall submit from one to three contributions to these meetings identifying actions that OPTXS can take to promote NGN Priority Services support in Optical Networks.

# 2.3.11 Internet Engineering Task Force (IETF)

The Internet Engineering Task Force is an open international community of network designers, operators, vendors, and researchers concerned with the evolution and operation of IP-based architectures and services. If requested by the OMNCS Task Monitor, the contractor shall support NGN Priority Services efforts by focusing technical efforts on relevant areas of interest. Contractor support will help ensure that NGN Priority Services functionalities become part of emerging IETF protocol work.

# 2.3.12 TeleManagement Forum (TM Forum)

The TM Forum is an international forum of approximately 700 member companies and organizations (such as the OMNCS). The Forum provides leadership, strategic guidance and practical solutions to improve the management and operation of information and communications services. OMNCS interest areas center on the technical work and products (e.g., Guidebooks, applications notes) stemming from the Service Level Agreement Management Team (SLAM) Team and the TM Forum Government and Defense Initiative.

The contractor shall support OMNCS interests with technical inputs (contributions) by participating in relevant virtual meetings and face-to-face meetings of the SLAM Team and the Government and Defense Initiative as directed by the Task Monitor.

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Specific contractor work includes:

- TMF SLAM Team:
  - Participate in monthly team meetings (virtual meetings)
  - Contribute (as directed by the COTR) to additional ETS-related aspects to be included in future releases of the SLA Management Handbook
  - Contribute (as directed by COTR) to additional ETS-related aspects to be included in future releases (and/or new releases) of service and/or technology specific application notes to the SLA Management Handbook

### Security Management Project:

- Participate in TMF Government and Defense Initiative monthly team meetings (virtual meetings)
- Contribute (as directed by the OMNCS Task Monitor) to TMF effort to enrich its Frameworks with full-spectrum Security Management guidance concerning architecture, processes, information and data models, applications and interfaces.
- Contribute (as directed by OMNCS TM) security requirements that may be applied within NGN to enable better emergency telecommunications (ET) (including ETS)

The contractor shall perform analysis as necessary. The contractor shall prepare up to five technical contributions for each meeting. The contractor shall prepare meeting reports for each standards meeting attended if these meetings require travel. The contractor shall meet with the OMNCS or discuss via telephone or E-Mail coordination to help set strategic directions for this standards effort.

# 2.3.13 <u>TIA TR45.8</u>

TIA TR45.8 is responsible for core network signaling, services and capabilities for the US. WPS for CDMA systems was standardized through this standards body. Basic enhancements to WPS (e.g., new features) will be done in this group. It is expected that new priority capabilities for new services (data, video, multimedia and Voice over IP (VoIP)), beyond basic circuit-switched voice service that has been specified for WPS, will initially be started in 3GPP2. However, it is expected that the US-specific needs may then result in some of the work moving back into TR45.8.

# 2.3.14 <u>3GPP2</u>

3GPP2 is the international standards body specifying the next generation services and systems; core network; radio systems/air interface and access interfaces. This group is specifying and evolving the capabilities beyond CDMA to CDMA2000 and the new packet switched network capabilities. The contractor will initially attend the services and core network groups to advance specifications for new NGN Priority Services of interest to the OMNCS.

## 2.3.15 3GPP

3GPP is the international standards body specifying the next generation services and systems; core network; radio systems/air interface and access interfaces. This group is specifying and evolving the capabilities beyond GSM to Wideband-CDMA and the new packet switched network capabilities, in addition to the basic IP Multimedia Subsystem (IMS) specifications. The contractor will initially attend the services groups (e.g., SA1 and SA2) to advance specifications for new NGN Priority Services of interest to the OMNCS and support the further specification of the IMS architecture.

#### 2.3.16 ATIS WTSC

The WTSC is responsible for specifying new services and capabilities for GSM and 3G systems, with a focus toward inputting into the 3GPP process. In particular, this group provides a US perspective (e.g., radio spectrum, services, etc.) into the international 3GPP standards group. This group can be used in support of NGN Priority Services to be developed in 3GPP. The Wireless Technologies and Systems Committee (WTSC) also provides liaison capabilities as needed to the other ATIS groups and the ITU-T. As required, the contractor shall support work within this standards body.

#### 2.3.17 Open Mobile Alliance (OMA)

The OMA is the leading industry forum for developing market driven, interoperable mobile service enablers. OMA was formed in June 2002 by nearly 200 companies including the world's leading mobile operators, device and network suppliers, information technology companies and content and service providers. Rather than keeping the traditional approach of organizing activities around "technology silos", with different standards and specifications bodies representing different mobile technologies, working independently, OMA is aiming to consolidate into one organization all specification activities in the service enabler space.

OMA is the focal point for the development of mobile service enabler specifications which support the creation of interoperable end-to-end mobile services. OMA drives service enabler architectures and open enabler interfaces that are independent of the underlying wireless networks and platforms. OMA creates interoperable mobile data service enablers that work across devices, service providers, operators, networks, and geographies. Toward that end, OMA will develop test specifications, encourage third party tool development, and conduct test activities that allow vendors to test their implementations. The role of OMA in terms of service specifications may at times overlap with 3GPP and 3GPP2. Generally, OMA will provide the so called, stage 1 and 2 specifications (i.e., service description and call flows) with the detailed protocol and procedures in stage 3 assigned to 3GPP and/or 3GPP2.

OMA has developed the specification for Push-to-Talk over Cellular (PoC). If requested by the OMNCS, the contractor will attend the OMA to develop and specify new priority capabilities for PoC.

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### 2.3.18 WiMax Forum and WiMax

The WIMAX Forum is an industry-led, not-for-profit organization formed to certify and promote the compatibility and interoperability of broadband wireless products based upon the harmonized IEEE 802.16/ETSI HiperMAN standard. One of the WiMAX Forum's goals is to accelerate the introduction of these systems into the marketplace. WiMAX Forum Certified<sup>™</sup> products are fully interoperable and support broadband fixed, portable and mobile services. Along these lines, the WiMAX Forum works closely with service providers and regulators to ensure that WiMAX Forum Certified systems meet customer and government requirements. WiMax means Worldwide Interoperability for Mirowave Access is a telecommunications technology that provides wireless transmission of data using a variety of transmission modes, from point to multipoint links to portable and fully mobile internet access. The technology provides up to 10 Mbps broadband speed without the need for cables. The technology is based on the IEEE 802.16 standard (also called Broadband Wireless Access). The name "WiMAX" was created by the WiMax Forum, which was formed in June 2001 to promote conformity and interoperability of the standard. The forum describes WiMAX as "a standards-based technology enabling the delivery of last mile wireless broadband access as an alternative to cable and DSL". If requested by the TM, the contractor shall attend WiMax meetings.

# 2.3.19 IEEE 802.16

The IEEE 802.16 Working Group on Broadband Wireless Access Standards develops standards and recommended practices to support the development and deployment of broadband Wireless Metropolitan Area Networks. IEEE 802.16 is a unit of the IEEE 802 Local Area Network/Metropolitan Area Network (LAN/MAN) Standards Committee. If requested by the TM, the contractor shall attend IEEE802.16 meetings.

#### 2.3.20 IMS Industry Requirements Group

The current trend in the telecommunications industry is for Service Providers to offer voice, data, and multimedia services using IP-based networks. There are numerous industry and Government efforts and industry standards activities related to specifying various access and core network architectures and services. To this end, the OMNCS has spearheaded an effort with Industry to develop Industry Requirements (IRs) that transcribe the existing functionality of the GETS, WPS and SRAS services onto these new architectures.

The contractor shall continue the work of defining and refining these IRs. The contractor will record and document the results of the IR process. Teaming with the OMNCS and its key contractors, the contractor shall build upon the on-going industry efforts in the development of Issue 2 of the Core and Access IRs to support NGN priority voice, video and data services. The contractor shall coordinate and work with the OMNCS in identifying and resolving key technical and strategic issues associated with these IRs. The contractor shall work with the

OMNCS and within the IR process to ensure that NGN Priority Services capabilities are incorporated into the Core network and Access network IRs.

The contractor shall coordinate with the on-going OMNCS standards team work program. As needed and based on the IR work process and development, the contractor shall compose (develop) technical contributions or associated IR reports and recommend (to the COTR) the submission of these contributions or reports to the appropriate standards entities to enable the work of the IMS Industry Requirements Group to become part of emerging national and international standards of the telecommunication industry.

To align the IRs and to harmonize relevant technical specifications, the contractor shall also take into account during the development of proposed technical contributions or reports, the NGN architecture that will facilitate the telecommunication industry support for NGN Priority Services offerings.

# 2.3.21 Standards Meeting Reporting and Analyses

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United States Government agencies, and major United States telecommunication Service Providers, spend millions of dollars annually for active participation in national and international telecommunication standards bodies. Telecommunication standards are important because they facilitate the integration of new technologies into the United States telecommunication systems, systems that are essential to the United States economic health in the global economic marketplace.

In recent years, due to the rapid pace of technological progress and ever faster product development cycles, there has been a proliferation in the number of telecom-related standards bodies and an increase in the pace of such work. At the same time, however, the economic downturn in the telecommunication industry is causing government agencies, Service Providers and their companies to continually reduce personnel to increase cost effectiveness.

The contractor shall subscribe as a client and provide access to a web-based information delivery system, such as the Telcordia Standards Knowledgebase (TSK) service or similar service for up to a maximum of 100 designated users. The service shall provide information products such as meeting-specific and topic-specific analysis reports, relating to current and emerging telecommunications technologies and standards. This reporting mechanism will provide the OMNCS with high-level useful overviews of contemporary standardization activities at major national and international telecommunication related standards development committees, groups, entities, etc.

The subscription shall include a "Hot Topics" database. The Hot Topics database shall contain concise, timely impact analyses (bulletins) on critical issues and latebreaking news on specific telecom technology issues as appropriate.

OMNCS designated users shall have access to reports from the Hot Topics database via the subscription service. The subscription service shall provide easy user friendly navigation tools. The subscription service shall provide search features to allow users access to:

- previous reports (archives) from standards committees,
- by telecom technology area,
- by keyword or
- by the priority level of key issues.

The subscription service and other web tools associated shall allow OMNCS designated users to have 24 hour 7 days access to reports. The contractor shall make all meeting-specific reports available within fifteen (15) days following the completion of a standards meeting.

The subscription service shall contain information on the following:

- 1. Coverage of specified US and international telecommunication standards bodies.
- 2. Coverage of specified telecom technology sub-topics related to telecommunication standards developments.
- 3. Committees covered shall include but not necessarily be limited to:
  - 3GPP
  - IEEE 802
  - IETF
  - ATIS IIF (IPTV Interoperability Forum)
  - ATIS PTSC
  - ATIS TMOC
  - ITU-T Study Group 2
  - ITU-T Study Group 11
  - ITU-T Study Group 13
  - ITU-T Study Group 16
  - ITU-T NGN-GSI
  - OIF (Optical Internetworking Forum)
  - TM Forum

In addition, at the request of the OMNCS COTR or TM, the contractor may be requested to report on the following standards activities: ATIS SON, ITU-T Study Group 15, plus some security-related committees such as ITU-T Study Group 17.

The aforementioned list of covered committees may change, during the task order year as the relevance of the standards bodies, associated committees, entities, etc.

changes due to the maturing of standards projects, the appearance of new entities, committees, etc. or mergers between or among existing these occur.

Topic-specific reports focus on the standardization of different areas of telecommunications technology (e.g., IPTV, NGN, E911, IP Telephony, IEEE LAN/WAN and WiMax Standards, OAM, Optical, Gbit Ethernet, etc.) that are being standardized in multiple standards bodies. Contractor topic-specific reports shall provide a window into the latest developments in standards work in the past quarter. The contractor shall issue at least one topic-specific report per quarter.

# Primary Standards Development Meeting Support as directed by COTR:

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3GPP Group	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
3GPP SA#49	September 20-23, 2011	San Antonio, TX	1 -
3GPP SA#51	March 21-24, 2011	United States (US)	1
3GPP SA1#52	November 8-12, 2011	Malta	1
3GPP SA2#80	Aug 30 – Sept 3, 2011	Brunstad	1
3GPP SA2#81	October 11-15, 2011	Sophia Antipolis, FR	1
3GPP SA2#82	November 15-19, 2011	US	1
3GPPCT1#67	October 11-15, 2011	Barcelona, Spain	1
3GPPCT1#68, 3GPPCT3#60	November 15-19, 2011	US	1
3GPPCT1	TBD, 2011	TBD	1
3GPPRAN2#71	August 23-27, 2011	Madrid, Spain	1
3GPPRAN2#71-BIS	October 11-15, 2011	China	1
3GPPRAN2#72	November 15-19, 2011	US	1
3GPPRAN2	2011	US	1

3GPP2 Group	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
3GPP2/TR45.8	September 13-17, 2011	Japan	1
3GPP2/TR45.8	October 25-29, 2011	North America	1
3GPP2/TR45.8	December 6-10, 2011	Hawaii	<u> </u>
3GPP2/TR45.8	2011	TBD	1
3GPP2/TR45.8	2011	TBD	. 1

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ITU-T NGN-GSI (SG11 & SG13) Group	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
ITU-T NGN-GSI (SG 11 & SG 13)	September 6-17, 2011	Geneva, Switzerland	2
ITU-T (SG 11 & SG 13)	TBD (9 days)	Geneva, Switzerland	2
ITU-T NGN GSI	May 9-20, 2011	Geneva, Switzerland	2

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ITU-T SG16 Group	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
ITU-T SG 16	July 19-30, 2011	Geneva, Switzerland	1
ITU-T SG16	April 2011 (9 days)	Geneva, Switzerland	1

ATIS PTSC Group	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
ATIS PTSC	August 19-30, 2011	Montreal or Vancouver	2
ATIS PTSC	November 1-5, 2011	Savannah, GA	2
ATIS PTSC	Jan/Feb 2011	US	2
ATIS PTSC	April/May 2011	US	2

TM Forum Group	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
TM Forum	July 19-23, 2011	Baltimore, MD	<u>l</u>
TM Forum	January 2011 (1 week)	Cascais, Portugal	1
TM Forum	June 2011 (1 week)	Baltimore, MD	1

# <u>Secondary Standard Development Meeting Support – At the discretion of the</u> <u>COTR:</u>

<b>3GPP Group</b>	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
3GPP SA#50	December 13-16, 2011	Istanbul, Turkey	1
3GPP SA#52	June 6-9, 2011	TBD	1
3GPPSA1#51	August 23-27, 2010	Asia	1
3GPP SA1	February 2011 (1 week)	TBD	1
3GPP SA1	May 2011 (1 week)	TBD	1

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3GPP SA2	January 2011 (1 Week)	US	1
3GPP SA2	April 2011 (1 Week)	Europe	1
3GPPCT1#66, 3GPPCT3#59	August 23-27, 2011	China	1
3GPPCT1	2011	TBD	1
3GPPCT1	2011	TBD	1
3GPPRAN2	2011	TBD	1
3GPPRAN2	2011	TBD	1

3GPP2Group	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
3GPP2/TR45.8	August 2-6, 2011	Korea	1
3GPP2/TR45.8	2011	TBD	1
3GPP2/TR45.8	2011	TBD	1

WIMAXGroup	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
WiMAX Forum NWG	Sept 27 – Oct 1, 2011	Seoul, Korea	1
WIMAX Forum NWG	November 1-5, 2011	Dallas, TX	1
WIMAX	2011	TBD	<u>_</u>
WIMAX	2011	TBD	<u> </u>
WIMAX	2011	TBD	1
WIMAX	2011	TBD	1

IEEE802.16 Group	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
IEEE 802.16	13-16 Sept 2011	St. Petersburg, Russia	1
IEEE802.16	8-11, Nov, 2011	Dallas, TX	1
IEEE802.16	14-17 March 2011	Singapore	1

-	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
ATIS WTSC	2011	US	1
ATIS WTSC	2011	US	1

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ATIS TMOC Group	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
ATIS TMOC	August 2011	US	1
ATIS TMOC	April/May 2011	US	1

Study Groups 15, 17, IETF, Open Mobile Alliance, and DoS Preparatory	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
ITU-T SG 15	TBD, 1 meeting	Geneva, Switzerland	1 .
ITU-T SG 17	TBD, 2 meetings	Geneva, Switzerland	1
IETF	TBD, 1 meeting	TBD	1
OMA	TBD, 1 meeting	TBD	1
Department of State ITU-T Preparatory Meetings	TBD	Washington, DC metro area	TBD

# Notes on Travel for Meetings:

Based on the aforementioned Tables, the contractor may expect to incur periodic local (within a 50 mile radius of the capital region) however local travel will not be reimbursed. Long distance travel costs for this effort (especially travel related to standards participation) must have prior approval of Government COTR or Task Monitor (via email).

- 1. All long distance contractor travel shall be in accordance with the Federal Travel Regulations. The contractor shall request via email to the COTR or lead task monitor, a written authorization from the COTR for travel outside the capital region. All travel requests outside the capital region must be submitted to the COTR thirty (30) days prior to scheduled departure date. The contractor shall provide the following information in the travel request letter:
  - a. Name of contractor personnel who will be traveling.
  - b. Dates and location of the proposed travel.
  - c. Reasons for the travel and the work the contractor will do while on travel.

The contractor is encouraged to purchase non-refundable tickets whenever feasible to reduce travel costs.

- 2. Projections of an additional number of meetings are made as "TBD" without specific dates and locations. These specific projections are based on historical data with respect to the frequency of meetings. Therefore, contractor shall take into account historical data as necessary with respect to 'Travel."
- 3. The above listed travel may be slightly adjusted by the Government from time to time during the course of this Task Order because events out of control of the Government. Such events include: standards group reorganizations, unforeseen adjustments or cancellations of standards meetings, etc.

# 2.4 Task 4: Network Modeling

The OMNCS uses telecommunications modeling and simulation capabilities to conduct analysis in support of NGN Priority Services. Because of significant technological changes in the public switched network, the OMNCS must continually review its modeling and simulation capabilities to assess their applicability to the newer technologies. The contractor shall provide technical consultation on modeling issues crucial to the delivery of NGN Priority Services; support in acquiring data for critical infrastructure vulnerability assessments; and perform ad hoc telecommunications studies/analyses as required.

The contractor shall build upon existing studies, computer simulations, and other reliability analyses to provide traffic-engineering tools to assist OMNCS in assessing and optimizing public network reliability, identifying network disruptions, and restoring services in support of Homeland Security Presidential Directive 7 (HSPD 7) and associated Critical Infrastructure Protection (CIP) initiatives. It is expected that the contractor shall create end to end models and tests to validate that the various access and core NGN Priority Services mechanisms developed as Industry Requirements (IRs) actually perform as expected during simulations of NS/EP events. This subtask shall entail developing realistic NS/EP test scenarios and traffic conditions for the end to end models.

- 2.4.1 Provide ad hoc telecommunications analyses/analysis verification as required by the OMNCS
- 2.4.2 Provide telecommunications and modeling consultation in person or via teleconference (as directed by the Government), on telecommunications and modeling topics selected jointly with OMNCS.
- **2.4.3** Support acquisition of communications asset and topology data when requested by OMNCS.
- 2.4.4 Process all received data and summarize results in MS Word documents, MS Excel spreadsheets, and/or MS PowerPoint files, or as designated by the TM.
- 2.4.5 Provide guidance and advice in securing the necessary data access agreement with the carrier(s)

- 2.4.6 Develop modeling analyses reports, whitepapers, and briefings in MS Word and/or MS PowerPoint files, or as designated by the TM. Potential topics include, but are not limited to:
  - network recovery process after attacks/outages
  - priority services deployment using next generation network (NGN) communications technologies
  - multimedia network traffic characteristics and their impacts on admission control and priority routing schemes

# 2.5 Task 5: Cable Infrastructure Support

As directed by the Task Monitor, the contractor will provide the following services:

- **2.5.1** Periodic updates of UCI standalone SQL Database to provide accurate data for quantifying the health of the UCI. The updates include:
  - New cables systems (including capacity, cable landings information etc.)
  - Retired cable systems
  - Upgraded cable systems (e.g., cable systems upgraded to DWDM)
  - Service affecting outages
  - Number of repair ships in service
- **2.5.2** Make enhancements to UCI Health Metric and SQL Database.
- **2.5.3** Characterization of undersea characterization of undersea cable traffic for cable systems of the following routes (i.e., from US to Europe, US to Asia, US to Middle East, etc.)
- 2.5.4 Recommendation to virtualized UCI information to other Government Departments and agencies to support the missions associated with understanding and mitigation of UCI vulnerabilities:
- 2.5.5 Briefings and White papers as directed by Task Monitor
  - Briefings and whitepapers as directed by Task Monitor.

#### 2.6 Task 6: Security and Reliability

- **2.6.1** The contractor shall support the OMNCS, by coordinating with the other key OMNCS contractors and interaction with the appropriate industry players, to
  - Develop the NGN Priority Services security specifications for the access and core networks.
  - Develop technical and strategic views of the required security functionality for NS/EP priority services,

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• Perform risk analyses of the NGN Priority Services architecture and underlying network infrastructure under various cyber threat conditions,

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- Determine the security scope to address access network and core network efforts,
- Help obtain industry cooperation with the security functionality being incorporated into the Access Network IRs and the IMS Core Network IR. This will include developing and maintaining the schedules for the industry efforts.
- **2.6.2** The TM may require the contractor to develop and test prototype implementations of key security functionality tied to an NGN Priority Services implementation within an IMS test bed to verify the feasibility of creating integrated solutions that meet the proposed requirements. The results of this prototype testing will be presented to OMINCS in a technical report and will be fed back into the requirements process where necessary.
- 2.6.3 The contractor shall work with OMNCS standards representatives to identify and resolve technical issues relating to these NGN Priority Services security work efforts, as appropriate. Based on the specific access network, security requirements and the core network security baseline, this security task may include the technical contributions to be submitted to the various industry standards bodies, as appropriate. The contractor shall work with the industry to harmonize and align all standards activities with the NGN Priority Services security specifications.

# 2.7 Task 7: Demonstrations/Prototypes/Tests/Comparative Studies

The OMNCS work is focused on rapidly developing communications technologies and how best to exploit these technologies to support NGN Priority Services requirements. Short-term demonstrations of these capabilities, products, and concepts might be required in addition to analytical testing to prove the performance of different vendor products/technical approaches, or concepts. These demonstrations and/or tests shall be, at a minimum, in the areas of security, signaling, wireless, and packet-based technologies.

As directed by the Task Monitor, the contractor will provide the following services:

- 2.7.1 Construct prototype(s) or test-bed(s) which simulate the implementation characteristics of the priority services applications, security and signaling technologies
- 2.7.2 Validate the performance requirements specified in the NGN Priority Services industry requirements groups for access and core networks
- 2.7.3 Develop service level performance and reliability specifications.

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- **2.7.4** Conduct demonstrations and/or testing studies to validate the performance of different vendor products/technical approaches, or concepts. These demonstrations and testing studies shall include, but not limited to, the following:
  - End-to-end performance testing (including access and core networks)
  - Testing of multi-access networks (including communications between different technologies networks, e.g., WIMAX and LTE networks)
  - Testing of multi service provider networks

# 3 <u>Deliverable/Delivery Schedule:</u>

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The aforementioned task descriptions are a synopsis of work to be performed. Following are details of the deliverables for the relevant tasks.

Task #	Deliverable title	Due Date	Distribution	Frequency /Remarks
2.1.1	Kickoff	As directed by PM/TM	As directed by PM/TM	As directed by /PMTM
2.1.2	Project Plans and Work Break Down Structures	Within ten (10) business days of the beginning date of a Project.	As directed by PM/TM	As directed by PM/TM
2.1.3	Hold Quarterly Program Reviews (QPRs) and deliver Monthly Status Reports (MSRs).	Within fifteen (15) business days of the closing quarter and ten (10) business days of the month.	As directed by PM/TM	As directed by PM/TM
2.2	Technical Assessments, Analyses, Studies, White Papers and Reports	As scheduled by TM after award	As directed by PM/TM	As directed by PM/TM
2.3.20	Technical Contributions or Reports	As directed by PM/TM	As directed by PM/TM	As required by meeting schedules of entities listed in Section 2.3.21 Number of contributions: up to 5 per meeting. For Industry Requirements contractor work products, up to 6 reports required during the TO period of performance (PoP).

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Task #	Deliverable title	Due Date	Distribution	Frequency /Remarks
2.3.21	Technical Meeting Report	15 Days after meeting	Std Dist*	Per meeting attended
2.4.1	Ad hoc analysis/verification	As directed by TM	Std Dist*	As directed by TM
2.4.2	Telecommunications and modeling consultation	As directed by TM	Std Dist*	As directed by TM
2.4.6	Network modeling analyses reports, whitepapers, and briefings	As directed by TM	Std Dist*	As directed by TM
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2.5.1	Update of UCI standalone SQL Database	As directed by TM	N/A	Ongoing
2.5.2	Enhancement of UCI Metrics and SQL Database	As directed by TM	As directed by TM	Ongoing
2.5.3	UCI Traffic Characterization for Major CONUS Routes	At the end of TO PoP	As directed by PM/TM	
2.5.4	Provide recommendations and solution for future virtualization of UCI information	Recommendations and solution eight (8) months after TO award. Final version due at the end of the PoP	As directed by PM/TM	Draft and Final
2.5.5	Briefings and Whitepapers	As directed by TM	Std Dist*	Draft and Final
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2.6.1	Industry conference calls/meetings	As directed by TM		As directed by TM
2.6.1	NGN Priority Services LTE Security Requirements & Incorporation into updated IR	Draft – As developed Final – Jun 2011	Std Dist*: 1 original 5 copies	1 time
2.6.1	IMS Core Network Security Requirements & incorporation into updated IR	Draft —As developed Final — Jun 2011	Std Dìst*: 1 original 5 copies	1 time
2.6.1	NGN Priority Services EV- DO risk analysis & security requirements Incorporation Into updated IR	Drafts – As developed Final – Jun 2011	Std Dist*: 1 original 5 copies	1 time

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	Deliverable title	Due Date	Distribution	Frequency /Remarks
2.6.1	NGN Priority Services UMTS security requirements Incorporation into updated IR	Final Jun 2011	Std Dist*: 1 original 5 copies	1 time
2.6.2	NGN Priority Services Security Prototype Assessment	Drafts – As developed Final – Jun 2011	Std Dist*: 1 original 5 copies	1 time
2.7	As directed by TM	As directed by TM	As directed by TM	As directed by TM

## \*Standard Distribution

- 1 copy of the transmittal letter without the deliverable to the Contracting Officer (CO)
- 1 copy of the transmittal letter and the deliverable to the Contracting Officer's Technical Representative (COTR)
- 1 copy of the transmittal letter and the deliverable to the Task Monitor (s) (TMs)

## 4 <u>Ad-Hoc Support (Optional)</u>

As determined to be necessary and as approved by the Government, the Contractor shall provide additional support to meet operational requirements. The Contractor shall seek Government approval in advance before incurring any costs associated with surge support. Government approval shall be authorized by the Contracting Officer

#### 5 Packaging, Packing, and Shipping:

Final documentation deliverables shall be provided in hard and soft copy using Microsoft Office compatible products. Daily, weekly, interim, informal deliverable and working-copy products required for on-going general support may be provided by e-mail or disk (CD) as approved by the COTR.

**Final Soft Copy Materials:** Final soft copy deliverables shall be developed using the current version of Microsoft OFFICE software (Word, PowerPoint and/or other applications) and provided on a CD-ROM or other government-approved medium. If more than one deliverable is provided at the same time, deliverables may be on the same software medium.

**Final Hard Copy Materials:** Final hard copy shall be type-written on  $8 \frac{1}{2}$ " x 11" papers, sized appropriately for the intended deliverable. The Contractor shall not use spiral binding or other binding that interferes with photocopying.

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#### 6 Inspection and Acceptance:

Acceptance Criteria: The COTR will review all draft and final deliverables to ensure accuracy, functionality, completeness, professional quality, and overall compliance with the guidelines/requirements of the delivery order. The Contractor shall ensure the accuracy and completeness of the deliverable. Errors, misleading, or unclear statements, incomplete or irrelevant information, and or excessive rhetoric, repetition, and "padding", shall be considered deficiencies and shall be subject to correction by the Contractor at no additional cost to the Government. Unless otherwise indicated, the government will require fifteen (15) working days to review and comment on deliverables. If the deliverable does not meet the noted criteria, the Government will return it.

**Rejection Procedures:** After notification that the deliverable did not meet the acceptance criteria, the Contractor shall resubmit an updated/corrected version within ten (10) working days after receipt of Government comments. Upon resubmission by the Contractor, the Government will reapply the Acceptance Criteria. If the corrected version of the deliverable does not meet the acceptance criteria, the Government may consider the Contractor as having deficient performance with respect to the subject task. The Government shall have fifteen (15) working days to respond to deliverables.

## 7 Other Pertinent Information or Special Considerations:

**Identification of Non-Disclosure Requirements:** Access to proprietary data is not a fundamental requirement for execution of this task. However, when access to proprietary information is necessary to perform work, the Contractor shall be required to sign a Non-Disclosure Agreement with various members of the telecommunications industry. Contractor and all non federal employees involved in the NSIE tasks are required to sign the NSIE NDA upon award of the task order. A copy of all NDA's generated within the telecommunications industry associated with work under this task order shall be provided to the Contracting Officer.

**Intellectual Property Rights:** All specified draft and final deliverables become the property of the Government. All model(s) and prototypes, including all source code, compiled code, executable code, object and software algorithm that the Contractor may develop under this task order shall become the property of the Government. All OMNCS databases and the providers' proprietary data shall be used solely for official government purposes.

# 8 <u>Government-Furnished Equipment (GFE)/Government-Furnished Information</u> (GFI):

**GFE:** No specific Government Furnished Equipment (GFE) will be provided, but if the mission requires, OMNCS will provide GFE at the Contractor's request or authorize purchase/rental of the equipment. Upon completion of this task order, the

Contractor shall submit, to the Program Office, a complete inventory of all GFE in his/her possession under the task order that has not been tested to destruction, completely expended in performance, or incorporated and made a part of a deliverable end item. The Program Office will furnish disposition instructions for all property, which was furnished or purchased under this Task Order.

**GFI:** The Government will provide information to facilitate contractor performance of work with respect to Sub-Task 2.3.20, of Task 3: Standards. IMS Industry Requirements Group. The titles of this information are as follows: Core IR Document, Access IR HRPD Document, Access eHRPD Document, Access IR UMTS Document, Access IR LTE Document, Access IR WiMAX Document, Access IR Satellite Document. DHS is not providing any intellectual property rights in the Government Furnished Information beyond the date of termination or closure of the contract.

#### 9 Security

### **Contract Security Classification**

This contract effort is unclassified.

#### **Contractor Information**

Performance of this contract requires the Contractor to have access to sensitive but unclassified (SBU) information (includes documents and material). SBU is unclassified information for official use only. Contractor employees that do not have a security clearance and require access to SBU information will be given a suitability determination. Requirements for suitability determination are defined in paragraph 3.0, security language for SBU contracts.

The Contractor shall abide by the requirements set forth in the <u>DD Form 254</u>, Contract Security Classification Specification, and the National Industrial Security Program Operating Manual (NISPOM) for protection of classified information at its cleared facility, if applicable, as directed by the Defense Security Service. If the Contractor is required to have access to classified information at a DHS or other Government Facility, it shall abide by the requirements set forth by the agency.

#### 10 Employment Eligibility

Subject to existing law, regulations and/or other provisions of this contract, illegal or undocumented aliens shall not be employed by the Contractor or perform on this contract. The Contractor shall ensure this provision is expressly incorporated into any and all subcontracts or subordinate agreements issued in support of this contract.

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#### 11 Continued Eligibility

DHS reserves the right to deny and/or restrict entrance to government facilities, prohibit employees from assigned work under the contract, deny and/or restrict handling of classified documents/material to any Contractor employee who DHS determines to present a risk of compromising classified and/or sensitive Government information.

The DHS Security Office may require drug screening at any time for probable cause and/or when the Contractor independently identifies circumstances where probable cause exists.

The Contractor shall report to the DHS Security Office any and all adverse information brought to their attention concerning employees performing under this contract. Reports based on rumor or innuendo shall not be included. The subsequent termination of employment of an employee does not obviate the requirement to submit this report. The report shall include the employee's name and social security number, along with the adverse information being reported.

## 12 Termination

The DHS Security Office shall be notified of all terminations/resignations within five (5) days of occurrence. The Contractor shall return to the Contracting Officer Technical Representative (COTR) all DHS issued identification cards and building passes that have either expired or have been collected from terminated employees. If an identification card or building pass is not available to be returned, a report shall be submitted to the COTR, referencing the pass or card number, name of individual to whom issued and the last known location and disposition of the pass or card.

#### 13 Security Management

The Contractor shall appoint a senior official to act as a Security Officer. The individual shall interface with the DHS Security Office through the COTR on all security matters, to include physical, personnel, and protection of all classified documents/material handled by the Contractor.

The COTR and DHS Security Office will have the right to inspect procedures, methods and facilities utilized by the Contractor to comply with the security requirements under this contract. Should the COTR or DHS Security Office determine that the Contractor is not in compliance with the security requirements of the contract, the Contracting Officer will notify the Contractor, in writing of the appropriate action that will be taken to rectify any non-compliance to the contract security requirements.

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#### 14 Suitability Determination

DHS shall exercise full control over granting, denying, withholding or terminating unescorted government facility and/or access to or handling of both classified and sensitive Government information to Contractor employees based upon the results of a background investigation. DHS may, as deems appropriate, authorize and grant a favorable Entry On Duty (EOD) decision based on preliminary security checks. The favorable EOD decision would allow the employees to commence work temporarily prior to the completion of the full investigation. The granting of a favorable EOD decision shall not be considered as assurance that a full employment suitability authorization will follow as a result thereof. The granting of a favorable EOD decision or a full employment suitability determination shall in no way prevent, preclude, or bar the withdrawal or termination of any such access by DHS, at any time during the term of the contract. No employee of the Contractor shall be allowed unescorted access to a Government facility without a favorable EOD decision or suitability determination by the Security Office. Contract employees assigned to the contract not requiring access to sensitive DHS information or recurring access to DHS facilities will not be subject to security suitability screening.

Contract employees waiting for an EOD decision may begin work on the contract provided they do not access sensitive Government information. Limited access to Government buildings is allowable prior to the EOD decision if the Contractor is escorted by a Government employee. This limited access allows Contractors to attend briefings, non-recurring meetings and begin transition work.

#### 15 **Background Investigations**

Contract employees (to include applicants, temporaries, part-time and replacement employees) under the contract, requiring access to sensitive information, shall undergo a position sensitivity analysis based on the duties each individual will perform on the contract. The results of the position sensitivity analysis shall identify the appropriate background investigation to be conducted. All background investigations will be processed through the DHS Security Office. Prospective Contractor employees shall submit the following completed forms to the DHS Security Office through the COTR no less than thirty (30) days before the start date of the contract, or thirty (30) days prior to entry on duty of any employees, whether a replacement, addition, subcontractor employee, or vendor:

Standard Form 85P, "Questionnaire for Public Trust Positions"

FD Form 258, "Fingerprint Card" (2 copies)

Conditional Access To Sensitive But Unclassified Information Non-Disclosure Agreement (DHS Form 11000-6)

Disclosure and Authorization Pertaining to Consumer Reports Pursuant to the Fair Credit Reporting Act (DHS Form 11000-9) Required forms will be provided by DHS at the time of award of the contract. Only complete packages will be accepted by the DHS Security Office. Specific instructions on submission of packages will be provided upon award of the contract.

Be advised that unless an applicant requiring access to sensitive information has resided in the US for three of the past five years, the Government may not be able to complete a satisfactory background investigation. In such cases, DHS retains the right to deem an applicant as ineligible due to insufficient background information.

The use of Non-U.S. citizens, including Lawful Permanent Residents (LPRs), is not permitted in the performance of this contract for any position that involves access to or development of any DHS Information Technology (IT) systems. DHS will consider only U.S. Citizens and LPRs for employment on this contract. DHS will not approve LPRs for employment on this contract in any position that requires the LPR to access or assist in the development operation, management or maintenance of DHS IT systems. By signing this contract, the Contractor agrees to this restriction. In those instances where other non-IT requirements contained in the contract can be met by using LPRs, those requirements shall be clearly described.

#### 16 Information Technology Security Clearance

When sensitive government information is processed on Department telecommunications and automated information systems, the Contractor shall provide for the administrative control of sensitive data being processed and adhere to the procedures governing such data as outlined in "DHS IT Security Program – Publication DHS MD 4300.Pub". Contractor personnel must have favorably adjudicated background investigations commensurate with the defined sensitivity level.

Contractors who fail to comply with Department security policy are subject to having their access to Department IT systems and facilities terminated, whether or not the failure results in criminal prosecution. Any person who improperly discloses sensitive information is subject to criminal and civil penalties and sanctions under a variety of laws (e.g., Privacy Act).

#### 17 Information Technology Security Training And Oversight

All Contractor employees using Department automated systems or processing Department sensitive data shall be required to receive Security Awareness Training. This training will be provided by the appropriate component agency of DHS.

Contractors involved with management, use, or operation of any IT systems that handle sensitive information within or under the supervision of the Department, shall receive periodic training at least annually in security awareness and accepted security practices and systems rules of behavior. Department Contractors, with significant

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security responsibilities, shall receive specialized training specific to their security responsibilities annually. The level of training shall be commensurate with the individual's duties and responsibilities and is intended to promote a consistent understanding of the principles and concepts of telecommunications and IT systems security.

All personnel who access Department information systems will be continually evaluated while performing these duties. Supervisors should be aware of any unusual or inappropriate behavior by personnel accessing systems. Any unauthorized access, sharing of passwords, or other questionable security procedures should be reported to the local Security Office or Information System Security Officer (ISSO).

# REFERENCES

# **DHS Office of Security**

DHS, Office of Security Deputy Chief, Personnel Security Staff Attn: Kimberly Lew Washington DC 20528 Telephone: (b)(6)

## **Defense Security Service**

Defense Industrial Security Clearance Office (DISCO)

# 18 Option To Extend The Term Of The Contract (52.217-9) (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor within 30 days; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 60 before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 1 (one) year.

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# LIMITATION OF FUTURE CONTRACTING (3052.209-73)(JUN 2006)

(a) The Contracting Officer has determined that this acquisition may give rise to a potential organizational conflict of interest. Accordingly, the attention of prospective offerors is invited to FAR Subpart 9.5--Organizational Conflicts of Interest.

(b) The nature of this conflict is that a contractor may have had access to non-public information gained in the performance of a DHS contract that could provide them with an unfair advantage regarding the instant acquisition.

(c) The restrictions upon future contracting are as follows:

(1) If the Contractor, under the terms of this contract, or through the performance of tasks pursuant to this contract, is required to develop specifications or statements of work that are to be incorporated into a solicitation, the Contractor shall be ineligible to perform the work described in that solicitation as a prime or first-tier subcontractor under an ensuing DHS contract. This restriction shall remain in effect for a reasonable time, as agreed to by the Contracting Officer and the Contractor, sufficient to avoid unfair competitive advantage or potential bias (this time shall in no case be less than the duration of the initial production contract). DHS shall not unilaterally require the Contractor to prepare such specifications or statements of work under this contract.

(2) To the extent that the work under this contract requires access to proprietary, business confidential, or financial data of other companies, and as long as these data remain proprietary or confidential, the Contractor shall protect these data from unauthorized use and disclosure and agrees not to use them to compete with those other companies.

(End of clause)

# **KEY PERSONNEL OR FACILITIES (DEC 2003)**

(a) The personnel or facilities specified below are considered essential to the work being performed under this contract and may, with the consent of the contracting parties, be changed from time to time during the course of the contract by adding or deleting personnel or facilities, as appropriate.

(b) Before removing or replacing any of the specified individuals or facilities, the Contractor shall notify the Contracting Officer, in writing, before the change becomes effective. The Contractor shall submit sufficient information to support the proposed action and to enable the Contracting Officer to evaluate the potential impact of the change on this contract.

The Contractor shall not remove or replace personnel or facilities until the Contracting Officer approves the change.

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The Key Personnel or Facilities under this Contract:

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(b)(6)

(End of clause)

# 19. <u>Other Limitations</u>

The Contractor does not have any rights under the contract to use the DHS seal or other DHS intellectual property without specific permission from the Contracting Officer

# Advertisements, Publicizing Awards, and News Releases

All press releases or announcements about agency programs, projects, and contract awards need to be cleared by the Program Office and the Contracting Officer. Under no circumstances shall the Contractor, or anyone acting on behalf of the Contractor, refer to the supplies, services, or equipment furnished pursuant to the provisions of this contract in any publicity news release or commercial advertising without first obtaining explicit written consent to do so from the Program Office and the Contracting Officer.

The Contractor agrees not to refer to awards in commercial advertising in such a manner as to state or imply that the product or service provided is endorsed or preferred by the Federal Government or is considered by the Government to be superior to other products or services.

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# **Optional Task for Surge Support**

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The contractor shall not incur any costs under this optional task unless prior authorization is received from the Contracting Officer. The Government reserves the right to activate a portion or all of the capacity allowed under these line items 0009 and 1009 based upon the identified needs of the program office.

# 20. Clauses incorporated by reference

52.227-11	Patent Rights – Ownership by the Contractor (DEC 2007)
52.227-16	Additional Data Requirements (JUNE 1987
52.227-17	Rights in Data - Special Works (DEC 2007)
52.232-22	Limitation of Funds (APR 1984)

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CONTINUATION SHEET	HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00001	2	2
NAME OF OFFEROR OR CONTRACT			

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY U (C) (	NIT D)	UNIT PRICE (E)	AMOUNT (F)
	2. Vendor CAGE CODE: 52326.				
	3. Vendor DUNS Number: 878211283.				
	4. CLIN 0008: Delete the text,"Delivery: 5 Days After Award"			·	
	5. Change Task Order Contracting Officer's Technical Representative(COTR): from Christian Onwuteaka to Val Liles.				
	All other terms remain unchanged. AAP Number: 63422 DO/DPAS Rating: NONE Period of Performance: 02/11/2011 to 02/10/2013				
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N 7540-01-15	<u> </u>				OPTIONAL FORM 336 (4-86)

AMENDMENT OF SOLICITATION/MODIFI AMENDMENT/MODIFICATION NO. 200002	CATION OF CONTRACT		
200002		1. CONTRACT ID CODE	PAGE OF PAGES
	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
	See Block 16C	RNNC-11~00094	
, ISSUED BY CODE	DHS/OFO/NPPAD/CS&	7. ADMINISTEREO BY (If other than tiern 6)	CODE DHS/OPO/NPPAD/CS6
J.S. Dept. of Homeland Secu	rity	U.S. Dept. of Homeland Se	
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IPPD Acquisition Division		NPPD Acquisition Division	n
45 Murray Lane, SW Wilding 410	,	245 Murray Lane, SW	
Ashington DC 20528		Building 410	
NAME AND ADDRESS OF CONTRACTOR (No., stree	et, county, State and ZIF Code)	Washington DC 20528	
CIENCE APPLICATIONS INTERNATION			
BER AND INFORMATION SOLUTIONS		9B, DATED (SEE ITEM 11)	
41 BENJAMIN DAVIS DRIVE	66	WALLED (SEE NEW 11)	
DLUMBIA MD 921211578			
		X HSHQDC-09-D-00062	R NO,
		HSHQDC-11-J-00063	
		108, DATED (SEE ITEM 13)	
ODE 8782112830000	FAGILITY CODE	02/10/2011	• • •
	11, THIS ITEM ONLY APPLIES TO	AMENDMENTS OF SOLICITATIONS	· ·
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REFERENCE NO. OF DOCUMENT BEING CONTINUED

CONTINUATION SHEET

NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

SUPPLIES/SERVICES	1		UNIT PRICE	AMOUNT (F)
	(0)		(15)	( [ ]
(b)(4) Obligated Amount Remains:				
AAP Number: 63422 DO/DPAS Rating: NONE Discount Terms:				
Net 30				
Department of Homeland Security Office of Procurement Operations				
Bldg. 410 Washington DC 20528				
FOB: Destination Period of Performance: 02/11/2011 to 02/10/2013				
Change Item 0001 to read as follows(amount shown is the obligated amount):				
Program Management Base year				
Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES				
Accounting Info: NSEF000000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: (b)(4) Accounting Info: NSEF000-000L0 04-03-02-00090 05 0003 00 00 00 00 GEOE 2576 RN0024 Funded: (b)(4)				(b)(4)
Change Item 0003 to read as follows(amount shown is the obligated amount):				
Standard Base Year				
Total Line Item Value\$: (b)(4) Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES				
Accounting Info: NSEP000000 L0 0403-02-000 90-05-0003-00-00-00 GEOE 2576 RN0024 Funded: (b)(4)				
Continued				
1	1	I		
	(B) 6) CLIN 0011 increased fro Obligated Amount Remains: AAP Number: 63422 DO/DPAS Rating: NONE Discount Terms: Net 30 Mark For: Department of Homeland Security Office of Procurement Operations 245 Murray Lane Bldg. 410 Washington DC 20528 FOB: Destination Period of Performance: 02/11/2011 to 02/10/2013 Change Item 0001 to read as follows (amount shown is the obligated amount): Program Management Base year Total Line Item Value Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: (b)(4) Change Item 0003 to read as follows (amount shown is the obligated amount): Standard Base Year Total Line Item Values (b)(4) Change Item 0003 to read as follows (amount shown is the obligated amount): Standard Base Year Total Line Item Values (b)(4) Product/Service Code: R425 Product/Service Code: R425 Product Service Description: ENGINEERING & TECHNICAL SERVICES Accounting Info: NSEP00000 L0 0403-02-00090 05 0003 00 00 00 00 GEOE 2576 RN0024 Funded: (b)(4) Change Item 0003 to read as follows (amount shown is the obligated amount): Standard Base Year Total Line Item Values (b)(4) Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES Accounting Info: NSEP000000 L0 0403-02-000 90-05-0003-00-00-00-00-00-00-00-00-00-00-00-0	(B) (C) 6) CLIN 0011 increased fro (b)(4) (c) 6) CLIN 0011 increased fro (b)(4) (c) 6) CLIN 0011 increased fro (b)(4) (c) Chigated Amount Remains: AAP Number: 63422 DO/DPAS Rating: NONE Discount Terms: Net 30 Mark For: Department of Homeland Security Office of Procurement Operations 245 Murray Lane Bldg. 410 Washington DC 20528 FOB: Destination Period of Performance: 02/11/2011 to 02/10/2013 Change Item 0001 to read as follows (amount shown is the obligated amount): Program Management Base year Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: (b)(4) Change Item 0003 to read as follows (amount shown is the obligated amount): Standard Base Year Total Line Item Value\$ (b)(4) Change Item 003 to read as follows (amount shown is the obligated amount): Standard Base Year Total Line Item Value\$ (b)(4) Change Item 003 to read as follows (amount shown is the obligated amount): Standard Base Year Total Line Item Value\$ Product/Service Code: R425 Product/Service Description: ENGINEERING & TECENNICAL SERVICES Accounting Info: NSEP00000 L0 0403-02-000 90-05-0003-00-00-00-00-00 GEOE 2576 RN0024 Product/Service Code: R425 Product/Service Code: R425 Product/Service Code: M425 Product/Service Code: M425 Produc	(B) (C) (D) 6) CLIN 0011 increased fro (b)(4) (b)ligated Amount Remains: AAP Number: 63422 DO/DPAS Rating: NONE Discount Terms: Net 30 Mark For: Department of Homeland Security Office of Procurement Operations 245 Murray Lane Bldg. 410 Washington DC 20528 FOB: Destination Period of Performance: 02/11/2011 to 02/10/2013 Change Item 0001 to read as follows(amount shown is the obligated amount): Program Management Base year Total Line Item Value Product/Service Description: ENGINEERING & TECHNICAL SERVICES Accounting Info: NSEP00000 LO 0403-01-000 90-05-0003-00-00-00-00 GEOR 2576 RN0024 Funded: (b)(4) Change Item 0003 to read as follows(amount shown is the obligated amount): Standard Base Year Total Line Item Value\$ (b)(4) Change Item 0003 to read as follows(amount shown is the obligated amount): Standard Base Year Total Line Item Value\$ (b)(4) Change Item 0003 to read as follows(amount shown is the obligated amount): Standard Base Year Total Line Item Value\$ (b)(4) Change Item 0003 to read as follows(amount shown is the obligated amount): Standard Base Year Total Line Item Value\$ (b)(4) Change Item 0003 to read as follows(amount shown is the obligated amount): Standard Base Year Total Line Item Value\$ 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Total Line Item Values (b)(4) Change Item 0003 to read as follows(amount shown is the obligated amount): Standard Base Year Total Line Item Values (b)(4) Change Item 0003 to read as follows(amount shown is the obligated amount): Standard Base Year Total Line Item Values (b)(4) Change Item Values (b)(4

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OF

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CONTINUATION SHEET

# REFERENCE NO. OF DOCUMENT BEING CONTINUED

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PAGE

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NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

Accounting Enfo: NEEPODODO LO 0603-01-000 90-05-0003-00-00-00 GGC 276 RND24 Funded: 0(4) Change Item 0004 to read as follows(amount shown is the obligated amount): Modeling 0004 Modeling Base year Total Line Item Value (b)(4) Froduct/Service Code: R425 Product/Service Code: R425 Product/Service Code: R425 Product/Service Code: R425 Product/Service Code: R425 Accounting Info: NEEPODOU LO 0403-01-000 90-05-0003-00-00-00-00 GKOE 276 RND24 Funded: (CINNS_0001- 0044 (b)(4) Codel (b)(4) Accounting Info: NEEPODOU LO 0403-01-000 90-05-0003-00-00-00-00 GKOE 276 RND24 Funded: (CINNS_0001- 0044 (b)(4) Accounting Info: NEEPODOU LO 0403-01-000 90-05-0003-00-00-00-00 GKOE 276 RND24 Funded: (D)(4) Accounting Info: NEEPODOU LO 0403-01-000 90-05-0003-00-00-00-00 GKOE 276 RND24 Funded: (b)(4) Change Item 0010 to read as follows(amount shown is the obligated amount): 0010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: NEEPODOU LO 0403-02-000 30-05-0003-00-00-00-00 GKOE 276 RND24 Funded: (b)(4) Change Item 0010 to read as follows(amount shown is the obligated amount): 0010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info:	ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
<pre>is the obligated amount): Modeling D004 Modeling Base year Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: ENGINEERING &amp; TECHNICAL SERVICES Accounting Info: NSEPODODOL D 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded (b)(4) Change Item 0008 to read as follows(amount shown is the obligated amount): Fix fee on Labor Base year (CLINS 0001- (b)(4) D004 (b)(4) Total Line Item Value (b)(4) Accounting Info: NSEPODODOL D 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: (b)(4) Accounting Info: NSEPO0000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: (b)(4) Accounting Info: NSEPO0000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: (b)(4) Accounting Info: NSEPO0000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: (b)(4) Accounting Info: Change Item 0010 to read as follows(amount shown is the obligated amount): D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info: D010 Travel - Base Year Total Line Item Year D010 Travel - Base Year Total Line Item Year D010 Travel - Base Year Total Xear D010 Travel - Base Year Total Xear D010 Travel - Base Year Total Xear D0</pre>		NSEP000000 L0 0403-01-000 90-05-0003-00-00-00 GEOE 2576 RN0024				
0004       Modeling Base year         Total Line Item Value       (b)(4)         Product/Service Code:       R425         Product/Service Description:       ENGINEERING 4         TECHNICAL SERVICES       Accounting Info:         NSEP00000 LD 0403-01-000 90-05-0003-00-00-00       GEOE 2576 RN0024         Funded       (b)(4)         Change Item 0008 to read as follows(amount shown is the obligated amount):       (b)(4)         0008       Fix fee on Labor Base year       (b)(4)         (CINS D001-       (b)(4)       (b)(4)         Accounting Info:       NSEP00000 LD 0403-01-000 90-05-0003-00-00-00-00       GEOE 2576 RN024         Funded:       (b)(4)       (b)(4)       (c)         Accounting Info:       NSEP00000 LD 0403-01-000 90-05-0003-00-00-00-00       GEOE 2576 RN024         Funded:       (b)(4)       Accounting Info:       NSEP00000 LD 0403-01-000 90-05-0003-00-00-00-00         NSEP00000 LD 0403-01-000 90-05-0003-00-00-00-00       GEOE 2576 RN024       Funded:       (b)(4)         Accounting Info:       NSEP00000 LD 0403-02-000 90-05-0003-00-00-00-00-00       GEOE 2576 RN024       Funded:       (b)(4)         Accounting Info:       NSEP00000 LD 0403-02-000 90-05-0003-00-00-00-00-00       GEOE 2576 RN024       Funded:       (b)(4)         Accounting Info						
Total Line Item Value (b)(4) Product/Service Description: ENGINEERING & TECHNICAL SERVICES Accounting Info: NSEP00000 LO 0403-01-000 90-05-0003-00-00-00-00 GKOE 2576 RN0224 Funded: (b)(4) Change Item 0008 to read as follows (amount shown is the obligated amount): Fix fee on Labor Base year (CLINS C001- (b)(4) 0004 (b)(4) Total Line Item Value (b)(4) Accounting Info: NSEP00000 LO 0403-01-000 90-05-0003-00-00-00-00 GKOE 2576 RN0224 Funded: (b)(4) Accounting Info: NSEP00000 LO 0403-01-000 90-05-0003-00-00-00-00 GKOE 2576 RN0224 Funded: (b)(4) Accounting Info: NSEP00000 LO 0403-01-000 90-05-0003-00-00-00-00 GKOE 2576 RN0224 Funded: (b)(4) Accounting Info: NSEP00000 LO 0403-02-000 90-05-0003-00-00-00-00 GKOE 2576 RN0224 Funded: (b)(4) Accounting Info: NSEP00000 LO 0403-02-000 90-05-0003-00-00-00-00 GKOE 2576 RN0224 Funded: (b)(4) Accounting Info: NSEP00000 LO 0403-02-000 90-05-0003-00-00-00-00 GKOE 2576 RN0224 Funded: (b)(4) Accounting Info: Travel - Base Year Total Line Item Value (b)(4) Accounting Info:		Modeling				
Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES Accounting Info: NSEP00000 L0 0403-01-000 90-05-0003-00-00-00-00 CECE 2576 RN0024 Funded: (b)(4) Change Item 0008 to read as follows (amount shown is the obligated amount): 008 Fix fee on Labor Base year (CLINS 0001- (b)(4) 0004- (b)(4) Total Line Item Value (b)(4) Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00 GECE 2576 RN0024 Funded: (b)(4) Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00 GECE 2576 RN0024 Funded: (b)(4) Accounting Info: NSEP000000 L0 0403-02-000 90-05-0003-00-00-00-00 GECE 2576 RN0024 Funded: (b)(4) Accounting Info: NSEP00000 L0 0403-02-000 90-05-0003-00-00-00-00 GECE 2576 RN0024 Funded: (b)(4) Accounting Info: NSEP00000 L0 0403-02-000 90-05-0003-00-00-00-00 GECE 2576 RN0024 Funded: (b)(4) Change Item 0010 to read as follows (amount shown is the obligated amount): 010 Travel - Base Year Total Line Item Value (b)(4) Accounting Info:	004	Modeling Base year				
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CONTINUATION SHEET

#### REFERENCE NO. OF DOCUMENT BEING CONTINUED

HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00002

NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO, (A)	SUPPLIES/SERVICES		I I	UNIT PRICE	
(A)	(B)	(C)	(D)	(E)	(F)
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	The contractor is not restricted to the price delineated for the contract line item numbers (CLINs) or sub-CLINs in the price schedule if the contractor anticipates the need to shift resources (level of effort) and/or capacity amongst CLINs or sub-CLINs. The contractor is authorized to use available resources (level of effort) and/or capacity across CLINs or sub-CLINs as necessary during the performance period as long the ceiling price of this order is not exceeded. The contractor shall obtain written approval from the Contracting Officer prior to utilizing the flexibility granted under this clause.				
	All other terms and conditions remain unchanged.				

PAGE

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OF

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PO0003         07/15/2011         See Schedule         5. PROJECT NO. (If applicable           6. ISSUED BY         CODE         DHS/OPO/NPRD/CSC         7. ADMINISTERED BY (If a point a poin	AMENDMENT OF SOLICITATION/MODIFI			1 CONTRACT ID CODE		PAGE OF PAGES
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b       OfTHER (Speady type of modification and add authority)         X       Mutual Agreement:         UPORTANT:       Contracts       Is not       Bits required to sign Phis document and return       1       copies to the issuing office         DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including socialation/contract subject matter where feesible)       1       copies to the issuing office         DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including socialation/contract subject matter where feesible)       1       copies to the issuing office         DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including socialation/contract subject matter where feesible)       1       copies to the issuing office         DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including socialation/contract subject matter where feesible)       1       copies to the issuing office         Structures       878211283+0000       experiments       1       to fully fund CLINS 0001, 0002, 0002, 0001, 0002, 0001, 0002, 0001, 0002, 0006, and 2) provide a listing of Government Furnished         incrementally fund CLINS 0005 and 0006; and 2) provide a listing of Government Furnished       4       4         CLIN 0001, is increased by       (b)(4)       LIN is fully funded in the amount of (b)(4)       4         tinue d       4       4       4       4       4       4			HIVINI I Y UF	FAV: 43 103(b).	- ar payn y	
b       D bTHER(Specify type of modification and adjuithenty)         X       Mutual Agreement:         UPORTANT:       Contestar       Is not       Bits required to sign Phis tocumont and return       1       copies to the issuing office         DESCRIPTION OF AMENDMENTMODIFICATION (Organized by UCF section headings, including sociation/contract subject matter where feasible)       1       copies to the issuing office         Purpose of this modification under task order HSEQDC-09-D-00062/HSHQDC-11-J-00063 is to corporate the following changes to the task order: 1) to fully fund CLINS 0001, 0002, 3, 0004, 0007 and 0008, to raise the total celling amounts of CLINS 0010 and 0011, and incrementally fund CLINS 0005 and 0006; and 2) provide a listing of Government Furnished ipment (GFE) into Section 8 of the statement of work.         CLIN 0001, is increased by       (b)(4)       LIN is fully funded in the amount of (b)(4)         American depresentations of the document reteringend on them SA or 10A, as Horetofore changed, remains unchanged and in full force and affact         MAME AND TITLE OF SIGNER (Type or print)       16C DATE SIGNED         (b)(4)       16C. DATE SIGNED         Amount of provement       10(4)         Is define any output       160 DATE SIGNED         (b)(4)       16C DATE SIGNED         CLIN 0002, CLIN is fully funded in the amount of (b)(4)       16C DATE SIGNED         (b)(4)       16C DATE SIGNED         (b)(4)       16C DATE SIGNED<	O. TRIS SUPPLEMENTAL AGREEMENT	SENTERED INTO PURSUANT TO J	AUTHORITY	OF-		······································
X       Mutual Agreement         WRORTANT:       Contractor       Dis not       Els required to sign this tocument and return       1       copies to the issuing office         DESCRIPTION OF AMENDMENTANODIFICATION (Organized by UCF section headings, including existation/contract subject matter where faceshile)       1       copies to the issuing office         IS Number:       878211283+0000       9       purpose of this modification under task order HSEQDC-09-D-00062/HSHQDC-11-J-00063 is to corporate the following changes to the task order:       1) to fully fund CLINS 0001, 0002, 0002, 0002, 0002, 0003, 0004, 0007 and 0008, to raise the total celling amounts of CLINS 0010 and 0011, and incrementally fund CLINS 0005 and 0006; and 2) provide a listing of Government Furnished ipment (GFE) into Section 8 of the statement of work.         CLIN 0001, is increased by       (b)(4)       CLIN is fully funded in the amount of (b)(4)         Muster AND TITLE OF SIGNER (Type or pide)       164. NAME AND TITLE OF CONTRACTING OFFICER (Type or pide)         (b)(4)       164. NAME AND TITLE OF CONTRACTING OFFICER (Type or pide)         (b)(4)       164. NAME AND TITLE OF CONTRACTING OFFICER (Type or pide)         (b)(4)       164. NAME AND TITLE OF CONTRACTING OFFICER (Type or pide)         (b)(4)       166. DATE SIGNED         (b)(4)       166. DATE SIGNED         (b)(4)       166. DATE SIGNED						
DBORTANT:       Contracts       Is not.       Els not.       I contracts       I contracts         DESCRIPTION OF AMENDMENTANODIFICATION (Organized by UCF section headings, including solicationstand subject matter where feesible.)       I contracts       I contracts         DESCRIPTION OF AMENDMENTANODIFICATION (Organized by UCF section headings, including solicationstand subject matter where feesible.)       I contracts       I contracts         IS Number:       878211283+0000       I contracts       I contracts       I contracts         Is purpose of this modification under task order HSEQDC-09-D-00062/HSHQDC-11-J-00063 is to corporate the following changes to the task order: 1) to fully fund CLINS 0001, 0002, 3, 0004, 0007 and 0008, to raise the total ceiling amounts of CLINS 0010 and 0011, and incrementally fund CLINS 0005 and 0006; and 2) provide a listing of Government Furnished ipment (GFE) into Section 8 of the statement of work.         CLIN 0001, is increased by unt of (b)(4)       (b)(4)       I is fully funded in the amount of (b)(4)         At a provide heaving and conditions of the document information in the amount of (b)(4)       I for NAME AND THE OF SIGNEE (Type or print)         (b)(4)       I is contracts of the store of a print)       I for OATE SIGNEED         (b)(4)       I is contracts where on addinge or print)       I for OATE SIGNEED         (b)(4)       I is contracts where or print)       I for OATE SIGNEED         (b)(4)       I is contreating a protex and in full force and affact <td>U UTHER (Specify type of modification an</td> <td>d authority)</td> <td></td> <td></td> <td></td> <td></td>	U UTHER (Specify type of modification an	d authority)				
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Discrete of preven adreased by       (b)(4)       (b)(4)       (b)(4)         Its provided in the anount of       (b)(4)       (b)(4)       (b)(4)         Its provide of preven adreased of preven adreased of prevents and prevents and prevents and prevents adreased of prevents addreased of p	PORTANT: Contractor	la recuired to sign this statement				
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PAUL 148 CFR) 53 243	ipment (GFE) into Section 8 CLIN 0001, is increased by unt of (b)(4) CLIN 0002, CLIN is fully functioned in the double of the	(b)(4) aded in the amount summark referenced in Rom 9A or 10A, 15C. DATE SIGNED	OE as horebolom	.4* (b)(4) Changod, ramains unchanged and in ful AND TITLE OF CONTRACTING OFFIC Degman	l force and d	16C DATE SIGNED

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	APPLICATIONS INTERNATIONAL CORPORATION				
TEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	3) CLIN 0003, is increased by (b)(4) From (b)(4) CLIN is fully funded.			***	
	(b)(4) CLIN 0004. is increased by (b)(4) rom (b)(4) CLIN is fully funded.				
	5) CLIN 0005, is incrementally funded at (b)(4) The outstanding balance is				
	<ul> <li>6) CLIN 0006, is incrementally funded at</li> <li>(b)(4)</li> </ul>				
	7) CLIN 0007, CLIN is fully funded in the amount of (b)(4)				
ĺ	8) CLIN 0008, is increased by (b)(4) from (b)(4) ee is fully funded for all active CLINS.				
	9) CLIN 0009, CLIN remains at \$0.00. Total line .item value (b)(4)				
	10) CLIN 0010, is increased by (b)(4) from LIN ceiling amount is raised to (b)(4)			<b>6</b>	
	11) CLIN 0011, is increased by (b)(4) from (b)(4) CLIN ceiling amount is (b)(4) to				
	Obligated Amount: (b)(4)		-		
	This modification increases the total estimated (b)(4) from				
	AAP Number: 63422 DO/DPAS Rating: NONE Discount Terms: Net 30				
	Delivery Location Code: PREPBSTN Preparedness (Ballston) 1110 N. Glebe Rd Arlington VA 22201			-ði	
	Continued				

OPTIONAL FORM 336 (4-86) Sponsored by GSA FAR (48 CFR) 53.110

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	EROR OR CONTRACTOR APPLICATIONS INTERNATIONAL CORPORATION				
ITEM NO. (A)	SUPPLIES/SERVICES	QUANTIT (C)	UNIT	UNIT PRICE	AMOUNT (F)
******	Mark For: Department of Homeland Security Office of Procurement Operations 245 Murray Lane			₩.	
	Bldg. 410 Washington DC 20528 FOB: Destination Period of Performance: 02/11/2011 to 02/10/2013				
	Change Item 0001 to read as follows(amount shown is the obligated amount):				
001	Program Management Base year			r	
	Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES Requisition No: RNNC-11-00013, RNNC-11-00094				
	Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: \$0.00				
	Accounting Info: NSEP000-000L0 04-03-02-00090 05 0003 00 00 00 00 GEOE 2576 RN0024 Funded: \$0.00 Accounting Info:			-	
	NSEP000000 L1 0403-01-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: (b)(4) Accounting Info:				(b)(4)
	NSEP000000 L1 0403-02-00090-05-0003-00-00-00-00 GEOE 2575 Priot 2 Funded (b)(4) Accounting Info:				
	NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded (b)(4) Accounting Info:				
	NSEP000000 L1 0405-01-00090-05-0003-00-00-00 GEOE 2575 pul012 Funded (b)(4)				
	Change Item 0002 to read as follows(amount shown is the obligated amount):			.†≯	
002	Technical Assessments, Analyses, Studies, White Continued				

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	APPLICATIONS INTERNATIONAL CORPORATION				
ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE	AMOUNT (F)
	Papers and Reports.				\F /
	Total Line Item Valu (b)(4) Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES. Requisition No: RNNC-11-00013			σ.	
	Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: (b)(4) Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: (b)(4) Accounting Info: NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: (b)(4)				
	Change Item 0003 to read as follows(amount shown is the obligated amount):				
003	Standard Base Year				(b)(4)
	Total Line Item Valu (b)(4) Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES Requisition No: RNNC-11-00013, RNNC-11-00094 Accounting Info: NSEF000000 L0 0403-02-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: \$0.00 Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00			•	
	GEOE 2576 RN0024 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-02-00090-05-0003-00-00-00-00 GEOE 2536 PN1013 Funded: (b)(4) Accounting Info: NSEP000000 L1 0403-03-00090-05-0003-00-00-00-00 GEOE 2576 RN1013			-31	
	Funded: (b)(4) Change Item 0004 to read as follows(amount shown Continued				
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CONTINUATION SUCCE		PAGE C	)F
CONTINUATION SHEET	HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00003	5	36
		1	

NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

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	Modeling			V#2		
004	Modeling Base year					
	Total Line Item Value (b)(4)					
	Product/Service Code: R425					
	Product/Service Description: ENGINEERING & TECHNICAL SERVICES					
	Requisition No: RNNC-11-00013, RNNC-11-00094					
	Accounting Info:					
	NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00					
	GEOE 2576 RN0024 Funded: \$0.00					
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	NSEP000000 L1 0403-01-00090-05-0003-00-00-00-00 GEOE 2576 RN1013					
	Funded: (b)(4)					
	Change Item 0005 to read as follows(amount shown					
	is the obligated amount):					
005	Cable Infrastructure Base Year					
	Line Item Total includes:					(b)(4)
	Incrementally Funded: (b)(4) Outstanding Balance: (b)(4)			ha.		
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:	Product/Service Description: ENGINEERING & TECHNICAL SERVICES					
	Requisition No: RNNC-11-00013					
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	NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00 GEOE 2576 RN1013					
	Funded: (b)(4)					
•	Change Item 0006 to read as follows(amount shown					
	is the obligated amount):					
006	Security and Reliability			. 22	· ·	
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	\$700,922.76 a					
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	Accounting Info: NSEP000000 L1 0405-01-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded (b)(4) Change Item 0007 to read as follows (amount shown						
007	is the obligated amount): Demonstrations						
007	Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES Requisition No: RNNC-11-00013						
	Accounting Info: NSEP000000 L1 0403-01-00090-05-0003-00-00-00 GEOE 2576 pul012 Funded: (b)(4) Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded (b)(4) Accounting Info: NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: (b)(4)			~		(b)(4)	
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008	Fix fee on Labor Base year (b)(4)						
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	Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00 GEOE 2576 RN0024 Funded: \$0.00 Continued			. <i>й</i> ¥			
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	NSEP000000 L1 0403-01-00090-05-0003-00-00-00-00				
	GEOE 2576 BM1013				
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	Change Item 0010 to read as follows (amount shown		. [		
	is the obligated amount):				
10	Travel - Base Year Total Not To Exceed Cost for				
	this line item is				(b)(4)
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011	ODC - Base Year				(	b)(4)
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# STATEMENT OF WORK Telecommunications Technical Support Services

# 1 <u>Background:</u>

## 1.1 Introduction:

The traditional circuit-switched network, called the Public Switched Telephone Network (PSTN), mainly supports voice services. It is being transitioned to a packet-switched network—the Next Generation Network (NGN)—which will support voice and broadband services over wireline backbone networks, with wireline and wireless access networks. NGN will make use of Quality of Service (QoS) enabled transport technologies in which service-related functions are independent of the underlying multiple transport technologies.

Presidential Executive Order 12472 (EO 12472) directs the Office of the Manager, National Communications System (OMNCS) to "...include planning for, developing, and implementing enhancements to the national telecommunications infrastructure to achieve measurable improvements in survivability, interoperability, and operational effectiveness under all conditions and seeking greater effectiveness in managing and using national telecommunication resources to support the Government during any emergency." In addition, the President's National Security Telecommunications Advisory Committee's (NSTAC) Next Generation Network Task Force (NGNTF) Report of March 28, 2006, and subsequent reports, recommended that the OMNCS include NGN technology in its planning for future national security and emergency preparedness (NS/EP) telecommunications evolutionary programs. The OMNCS must ensure the seamless transition from PSTN-based Priority Services to NGN-based Priority services.

The OMNCS requires technical support to fulfill the mission of EO 12472, the intent of the Office of Management and Budget (OMB) circular number A-119 on Government participation in voluntary standards development, and NSTAC objectives and recommendations. In general, the support required includes technical studies, analyses and prototype testing; white papers and technical reports; identification or recommendations of standards and Request For Comments (RFCs) with specific functionalities that have good potential for priority service approaches, and technical contributions to non-governmental standards bodies.

## 1.2 Standards Background:

The OMNCS is required to provide priority communications services to NS/EP users across public networks. Wireless Priority Services (WPS) provide the basis for such priority capabilities in current 2<sup>nd</sup> Generation (2G) wireless networks. The telecommunication industry standards groups are addressing the evolution of wireless networks from the current 2G/2.5G technologies/systems to 3<sup>rd</sup> Generation (3G), Wireless Fidelity (WiFi), Worldwide Interoperability for Microwave Access (WiMax), IP Multimedia Subsystem (IMS), and Long Term Evolution (LTE) based technologies/systems, which will provide greater efficiencies and additional user services. Other wireless networks that may be of interest are Universal Mobile Telecommunications System (UMTS), Wireless Local Area Networks (LAN), Ultra Mobile Broadband (UMB), and satellite. Industry groups are also looking into the structure of Service Level Agreements (SLAs) that will be necessary to spell out performance and quality of service criteria beneficial to users.

As the wireless networks evolve, NGN Priority Services need to be incorporated into the newer technologies and network types. As a result, work is needed to specify the end-to-end NGN priority service capabilities for real-time voice, data, video, and multimedia communications services. Some of the pertinent standards groups include: 3<sup>rd</sup> Generation Partnership Project (3GPP), 3GPP2, the Alliance for Telecommunications Industry Solutions (ATIS), the International Telecommunication Union (ITU), the Telecommunications Industry Associates (TIA), the IEEE, the Internet Engineering Task Force (IETF), the European Telecommunications Standards Institute (ETSI), the TeleManagement Forum (TMF), the WiMAX Forum, and similar bodies.

#### 1.3 Modeling Background:

The OMNCS uses modeling and simulation capabilities to conduct analyses of the evolving public and private telecommunications systems in support of its NGN Priority Services mission. The Modeling, Analysis, and Technology Assessments (MATA) Team, maintains a telecommunications infrastructure modeling and analysis capability to identify those assets most critical to the successful operation of NGN Priority Services, to predict and mitigate the effect of telecommunications failures on the national leadership's ability to communicate during times of crisis, and to conduct studies to quantify the dependence of critical government networks on existing and new telecommunications technologies. MATA must continually model and analyze telecommunications technologies because of significant network changes. This task will provide expertise and updated information about the changing telecommunications infrastructure, to help resolve gaps in the current suite of tools, and effectively manage additional modeling and simulation capabilities.

#### 1.4 <u>Cable Infrastructure Background:</u>

The OMNCS developed undersea cable infrastructure (UCI) analysis and health assessment capabilities that help influence network design and services to further the NGN Priority Services mission. Because of significant dependence of the global telecommunications network on undersea cable transport, the OMNCS must continually review the resiliency and survivability of this critical infrastructure. This task will provide ongoing analyses of this infrastructure; assistance in the development of a mitigation, warning, and verification process and plan; modeling of failures and restoration; and analysis of alternative transport capabilities.

#### 1.5 Security Background:

To support voice, data, and video services, various telecommunications standards bodies have specified NGN architectures based on the 3GPP IMS. These new distributed architectures introduce a set of risks for the NGN itself and the interconnection to the legacy PSTN.

The OMNCS has responded to this major shift in the telecommunications infrastructure by working to define NGN Priority Services for NGN/IMS networks. Security risks in access and core networks must be mitigated up front to protect the users and services from unauthorized use, and from service availability and integrity exploits. It is also critical to understand the security,needs of service providers and authorized service users.

#### 2 Tasks:

DHS funds may not be used for the provision of food and beverages unless the program office obtains prior approval from the DHS Office of General Counsel. The contractor shall also comply with all other DHS restrictions concerning the use of funds for conferences and meetings.

Various task deliverables and delivery schedules are shown at end of this section.

## 2.1 Task 1 – Program Management

- A summary of resource expenditures for all tasks (including a breakdown of the individual cost elements, i.e., program management support, program review/auditing, contracts management, strategic planning, etc). The core objective is to show an association between contract expenditures and task order deliverables.
- An overview of work completed, in progress, and planned for each task.
- A Microsoft Excel spreadsheet (exact format will be provided upon task order award) that includes the following:
  - Labor hours expended by task, name, and labor category
  - Other Direct Costs (ODC) and Travel Expenses incurred. Supporting documentation may be requested by the Contracting Officer's Technical Representative (COTR)
- **2.1.1** Conduct an initial kickoff Technical Interchange Meeting (TIM) within 15 business days after formal acceptance of this task order to review task requirements and establish firm dates for the tasks identified in the deliverables schedule.
- 2.1.2 Provide Project Management Plans for individual tasks in Microsoft (MS) Project format with appropriate Work Breakdown Structures (WBS) that reflect resources by labor category, milestones, project start/completion dates, and other applicable information to assist the COTR and Government Task Leads in assessing costs, budget, and schedule.
- 2.1.3 Quarterly Program Status Reviews (QPSRs) within 15 business days of the end of the quarter, and deliver Monthly Status Reports (MSRs) within ten business days of the end of the month. At a minimum, MSRs should include the following:
  - Tasks worked, hours expended on tasks, and labor categories per task
  - An overview of work completed, in progress, and planned
  - Identification of problem areas with recommended remedial actions
  - Summary of resource expenditures
  - Status of all issues identified during the course of the last review
  - ODC and Travel Expenses incurred
  - Minutes of meetings attended
  - Other items as required by the COTR

#### 2.2 Task 2: Technical Assessments, Analyses, Studies, White Papers and Reports

As telecommunications network technologies continue to evolve and are implemented in the public switched network, numerous network improvements—such as wireless, broadband, management, and optical networking technologies—are expected. The Government may select specific technical topics related to these improvements for which the Contractor shall prepare technical talks or presentations. The results of this work shall also be documented in technical reports, white papers, and briefings.

2.2.1 When directed by the Government, the Contractor shall conduct studies to determine how improvements and advances in telecommunications technologies may impact the security of the

public network and the mission to provide priority services in emergency/overload conditions. The Contractor shall identify major issues of concern that may be associated with the improvement or introduction of new telecommunications technologies and shall recommend approaches to be taken by the Government to reduce overall vulnerability and ensure priority access.

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These studies shall be based on the Contractor's knowledge of the introduction of these technologies and will emphasize the security vulnerabilities and priority aspects of the architectures for the Government Emergency Telecommunications Services (GETS) application and extending to NGN Priority Services applications. Topics to be reported on may include, but are not limited to:

- advances related to presence, messaging, identity management, software defined radios, new wireless technologies
- Automatic Switched Transport Networks (ASTN)
- Application Programming Interface (API) based service creation environments
- emerging protocols (e.g., Session Initiation Protocol (SIP) and DIAMETER)
- network timing and synchronization
- network controlled intelligent devices, smart cards, and voice recognition
- network based storage and computing
- network evolution
- optical burst and packet switching technology
- Gigabit and 10GbE, switching technologies for optical networks
- wavelength agility and its applications
- transport technologies (e.g., Dense Wavelength Division Multiplexing [DWDM] and undersea cable)
- quantum cryptography
- 2.2.2 As required by the Government, the Contractor shall propose appropriate capabilities to address shortfalls in NGN Priority Services and provide overviews and analyses of a full spectrum of these technology topics. Additionally, the Contractor may be asked to identify technical focus areas in NGN wireline and wireless standards where priority services are not fully addressed or defined.
- 2.2.3 As required by the Government, the Contractor shall conduct research that analyzes service survivability mechanisms of emerging broadband IP-based technologies, helping to specify and develop processing priorities and service survivability functionality for these emerging networks, and working on control and restoration regimes that can restore services on a priority basis after a major transport failure. The work will be applicable to private Government networks, public networks, and integrated private-public networks. The Contractor shall also conduct research that analyzes the survivability of the expected architecture of the NGN. Based on a provided set of threat assumptions, the survivability of that network and availability of network resources and bandwidth to support NGN Priority Services applications will be modeled and estimated. These analyses shall be documented in a series of technical reports.

# 2.3 Task 3: Standards

2.3.1 <u>ITU-T Study Group 2</u> (Operational aspects of service provision, networks and performance)

Study Group 2 is responsible for studies relating to:

- principles of service provision, definition and operational requirements of service emulation;
- numbering, naming, addressing requirements and resource assignment including criteria and procedures for reservation and assignment;
- routing and interworking requirements;
- operational aspects of networks and associated performance requirements including network traffic management, quality of service (traffic engineering, operational performance and service measurements);
- operational aspects of interworking between traditional telecommunication networks and evolving networks; and

The Contractor shall support standardization work (e.g., technical contributions, analysis, other technical initiatives) toward the primary objective of fully integrating NGN Priority Services management and information sharing requirements in emerging commercial telecommunication service capabilities.

#### 2.3.2 <u>ITU-T Study Group 11</u> (Protocols and test specifications)

Study Group 11 is responsible for studies relating to signaling requirements and protocols for telephony, Intelligent Networks (IN), ISDN, and Broadband ISDN, in addition to signaling support for and interconnection to NGN and IP networks. With respect to signaling, two technical work areas of interest are as follows:

- Signaling requirements for new, value added, NGN and IP-based services.
- Access, core network and interconnection signaling for advanced services

The Contractor shall support NGN Priority Services technical efforts, as stated above, by focusing initial technical efforts on the areas listed above. The Contractor shall participate and attend meetings of Study Group 11 and associated NGN-GSI initiatives to provide technical assistance to official OMNCS delegates in the development of Recommendations (e.g., TRQ Recommendations). Contractor support will help ensure that NGN Priority Services functionalities (from the signaling perspective) become part of ITU-T Recommendations. The Contractor shall take into account Signaling System No.7 (SS7) interfaces with respect to and interconnection to IP telephony and NGN signaling protocol development, in addition to signaling for IP-to-IP network interconnections. The Contractor shall also take into account relevant task objectives, work items, and other study points relevant to NGN Priority Services.

## 2.3.3 <u>ITU-T Study Group 13</u> (Future Networks and NGN)

Study Group 13 is the Lead Study Group in the ITU-T for NGN. With respect to this Study Group work effort, Questions 5/13 (Architecture) and 16/13 (Security) are the work areas most relevant for the Contractor. Advancement of the development of Draft Recommendation Y.2205 R1 (Next Generation Networks – Emergency Telecommunications – Technical Considerations) within Question 5 is the prime document where Contractor technical support is needed to assist the OMNCS editor of this draft. When approved as a new ITU-T Recommendation, the contractor will use this new Recommendation as a baseline framework to support development of a relevant successor draft Recommendations.

The work of this Study Group, along with the work of Study Group 11, also encompasses NGN Global Standards Initiative (NGN-GSI) events of the ITU-T. Note: the ITU-T may change the name of the NGN Global Standards Initiative in the near future. However, the work of the contractor will be the same as in the NGN-GSI.

#### 2.3.4 <u>ITU-T Study Group 15</u> (Optical and other transport network infrastructures)

ITU-T Study Group 15, as the lead Study Group on optical technology and access networks is responsible for studies and Recommendations on transport network - data, management, and control planes and supporting systems. This work encompasses access and core networks including capabilities and protocols for end user - network interactions. With respect to these capabilities, the following Study Group 15 families of standards (Recommendations) require support: Signaling, Automatic Switched Optical Network, (ASON) Architecture, Ethernet, Routing, and Discovery. If requested by the Government, the Contractor shall support technical objectives by focusing efforts on these above listed families of standards technical areas.

#### 2.3.5 <u>ITU-T Study Group 16</u> (Multimedia terminals, systems and applications)

ITU-T SG 16 is responsible for studies and specifications relating to multimedia service definition and multimedia systems. It is the Lead Study Group on Multimedia Services, Systems and Terminals. It is also the Lead Study Group on e-business and e-commerce.

Study Group 16 works on the following items:

- Definition of a framework and roadmaps for the harmonized and coordinated development of multimedia communication standardization to provide guidance across ITU-T study groups, and in close cooperation with other regional and international SDOs and industry forums; these studies include mobility, IP and interactive broadcasting aspects;
- Definition of multimedia protocol and network architectures;
- Operation of multimedia systems and services, including interoperability;
- Protocols for multimedia systems and services (e.g., H.248 and H.246);
- Media coding and signal processing;
- Multimedia terminals including facsimile terminals;
- QoS and end-to-end performance in multimedia systems;
- Security of multimedia systems and services;
- Ensuring end-to-end interoperability between systems and gateways;

The Contractor shall focus technical efforts on some of the items listed above in support of specifying basic Emergency Telecommunications Service (ETS) capabilities in the network. The capabilities of interest will be coordinated with the Contractor efforts in the other relevant ITU-T Study Groups and national standards bodies. Contractor support will help ensure that NGN Priority Services functionalities become part of emerging ITU-T Recommendations. The Contractor shall take into account all task objectives, work items, and other Question Study points relevant to NGN Priority Services.

#### **2.3.6 ITU-T Study Group 17** (Security languages and telecommunication software)

Study Group 17 has been designated the Lead SG for Telecommunication Security. If requested by the Government, the Contractor shall participate in this SG to facilitate and develop security capabilities related to ETS. All efforts will be coordinated with security efforts in ATIS and other Study Groups.

#### 2.3.7 <u>ATIS PROC</u> (Network Performance, Reliability and Quality of Service Committee)

PRQC develops and recommends standards, requirements, and technical reports related to the performance, reliability, and associated security aspects of telecommunications networks, as well as the processing of voice, audio, data, image, and video signals, and multimedia. PRQC also develops and recommends positions on, and fosters consistency with, standards and related subjects under consideration in other North American and international standards bodies.

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If requested by the Government, the Contractor shall support standardization work (e.g., technical contributions, analysis, other technical initiatives) toward the primary objective of fully integrating NGN Priority Services management and information sharing requirements in emerging commercial telecommunication service capabilities. The focus of this work may include assisting PRQC on ETS related topics such as Reliability/Availability and Survivability/ Endurability, particularly those for which it is important to achieve consistency with other standards bodies (e.g., PTSC, TMOC, ITU-T Study Group 2). This effort may also include ETS user security requirements and the specification of ETS bearer security capabilities.

## 2.3.8 <u>ATIS PTSC</u> (Packet Technologies and Systems Committee)

The PTSC is presently the key national standards body for the development and specifications of PSTN, NGN and IP-based network services, architectures, signaling/control capabilities, and network interconnection. In addition, it is responsible for the development of security capabilities for signaling and control. A major focus is on the specification of NGN IP-based infrastructures that would support Voice over IP (VoIP) and other services on a carrier's network and between networks. Reliable and secure interconnection and routing between IP networks and between the PSTN and IP networks are of major concern.

Because the PTSC serves as a prime source of USA contributions (on Signaling/Control) to ITU-T Study Group 11, the Contractor shall write contributions to Study Group 11 and participate in PTSC meetings. In support of the development and specification of ETS, the Contractor shall contribute to PTSC to advance the US standards and liaison activities with other ATIS subcommittees (e.g., PRQC) or other groups (e.g., IETF), as appropriate. The Contractor will coordinate with the OMNCS on the development of technical contributions to the PTSC intended for these other groups.

#### **2.3.9 ATIS TMOC** (Telecommunications Management and Operations Committee)

The Telecom Management and Operations Committee (TMOC) develops operations, administration, maintenance and provisioning standards, and other documentation related to Operations Support System (OSS) and Network Element (NE) functions and interfaces for communications networks - with an emphasis on standards development related to U.S.A. communication networks in coordination with the development of international standards

The Contractor, if requested by the Government, shall support standardization work (e.g., technical contributions, analysis, other technical initiatives), toward the primary objective of fully integrating NGN Priority Services management and information sharing requirements in emerging commercial telecommunication service capabilities. The standardization work may include one or more of the following:

- development of USA contributions in support of related ITU-T Study Group 2 management activities (e.g., specification of ETS Management Service);
- Interface specification work to support Telecom Information Sharing and Analysis Center (ISAC) information interchange.

## 2.3.10 ATIS OPTXS (Optical Transport and Synchronization Committee)

OPTXS serves as a prime source of USA contributions to ITU-T Study Group 15. If requested by the Government, the Contractor shall write contributions for, and participate in, OPTXS meetings.

If requested by the Government, the Contractor shall submit from one to three contributions to these meetings identifying actions that OPTXS can take to promote NGN Priority Services support in Optical Networks.

#### 2.3.11 **IETE** (Internet Engineering Task Force

The Internet Engineering Task Force is an open international community of network designers, operators, vendors, and researchers concerned with the evolution and operation of IP-based architectures and services. If requested by the Government, the Contractor shall support NGN Priority Services efforts by focusing technical efforts on relevant areas of interest. Contractor support will help ensure that NGN Priority Services functionalities become part of emerging IETF protocol work.

#### 2.3.12 <u>TeleManagement Forum</u> (TM Forum)

The TM Forum is an international forum of approximately 700 member companies and organizations (such as the OMNCS). The Forum provides leadership, strategic guidance and practical solutions to improve the management and operation of information and communications services. OMNCS interest areas center on the technical work and products (e.g., Guidebooks, applications notes, Key Performance Indicators definitions) stemming from the Service Level Agreement Management Team (SLAM) Team and the TM Forum Government and Defense Initiative.

The Contractor shall support OMNCS interests with technical inputs (contributions) by participating in relevant virtual meetings and face-to-face meetings of the SLAM Team and the Government and Defense Initiative as directed by the Task Monitor.

Specific Contractor work includes:

- TMF SLAM Team:
  - Participate in monthly team meetings (virtual meetings)
  - Contribute (in coordination with Government Task Lead) to additional ETS-related aspects to be included in future releases of the SLA Management Handbook
  - Contribute (in coordination with the Government Task Lead) to additional ETSrelated aspects to be included in future releases (and/or new releases) of service and/or technology specific application notes to the SLA Management Handbook
  - Contribute (in coordination with the Government Task Lead) to the definition of Key Performance Indicators (KPIs) relevant to ETS. This KPI tasking may require coordination with, and / or direct participation in, virtual meetings and face-to-face meetings with the 3GPP Telecom Management Working Group (TSG SA WG5).

#### • Security Management Project:

- Participate in TMF Government and Defense Initiative monthly team meetings (virtual meetings)
- Contribute (in coordination with the Government Task Lead) to TMF effort to enrich its Frameworks with full-spectrum Security Management guidance concerning architecture, processes, information and data models, applications and interfaces.

 Contribute (in coordination with the Government Task Lead) security requirements that may be applied within NGN to enable better emergency telecommunications (ET) (including ETS)

The Contractor shall perform analysis as necessary and prepare up to five technical contributions for each meeting. The Contractor shall prepare meeting reports for each standards meeting attended if these meetings require travel. The Contractor shall meet with the OMNCS or discuss via telephone or E-Mail to help set strategic directions for this standards effort.

#### 2.3.13 TIA TR45.8

TIA TR45.8 is responsible for core network signaling, services and capabilities for the US. WPS for CDMA systems was standardized through this standards body. Basic enhancements to WPS (e.g., new features) will be done in this group. It is expected that new priority capabilities for new services (data, video, multimedia and Voice over IP (VoIP)), beyond basic circuit-switched voice service that has been specified for WPS, will initially be started in 3GPP2. However, it is expected that the US-specific needs may then result in some of the work moving back into TR45.8.

#### 2.3.14 3GPP2

3GPP2 is the international standards body specifying the next generation services and systems; core network; radio systems/air interface and access interfaces. This group is specifying and evolving the capabilities beyond CDMA to CDMA2000 and the new packet switched network capabilities. The Contractor will initially attend the services and core network groups to advance specifications for new NGN Priority Services.

# 2.3.15 3GPP

3GPP is the international standards body specifying the next generation services and systems; core network; radio systems/air interface and access interfaces. This group is specifying and evolving the capabilities beyond GSM to Wideband-CDMA and the new packet switched network capabilities, in addition to the basic IP Multimedia Subsystem (IMS) specifications. The Contractor will initially attend the services groups (e.g., SA1 and SA2) to advance specifications for new NGN Priority Services and support the further specification of the IMS architecture.

#### 2.3.16 ATIS WTSC (Wireless Technologies and Systems Committee)

The WTSC is responsible for specifying new services and capabilities for GSM and 3G systems, with a focus toward inputting into the 3GPP process. In particular, this group provides a US perspective (e.g., radio spectrum, services, etc.) into the international 3GPP standards group. This group can be used in support of NGN Priority Services to be developed in 3GPP. The (WTSC also provides liaison capabilities as needed to the other ATIS groups and the ITU-T. As required, the Contractor shall support work within this standards body.

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#### 2.3.17 Open Mobile Alliance (OMA)

The OMA is the leading industry forum for developing market driven, interoperable mobile service enablers. OMA was formed in June 2002 by nearly 200 companies including the world's leading mobile operators, device and network suppliers, information technology companies and content and service providers. Rather than keeping the traditional approach of organizing activities around "technology silos", with different standards and specifications bodies representing different mobile technologies, working independently, OMA is aiming to consolidate into one organization all specification activities in the service enabler space.

OMA is the focal point for the development of mobile service enabler specifications which support the creation of interoperable end-to-end mobile services. OMA drives service enabler architectures and open enabler interfaces that are independent of the underlying wireless networks and platforms. OMA creates interoperable mobile data service enablers that work across devices, service providers, operators, networks, and geographies. Toward that end, OMA will develop test specifications, encourage third party tool development, and conduct test activities that allow vendors to test their implementations. The role of OMA in terms of service specifications may at times overlap with 3GPP and 3GPP2. Generally, OMA will provide the so called, stage 1 and 2 specifications (i.e., service description and call flows) with the detailed protocol and procedures in stage 3 assigned to 3GPP and/or 3GPP2.

OMA has developed the specification for Push-to-Talk over Cellular (PoC). If requested by the Government, the Contractor will attend the OMA to develop and specify new priority capabilities for PoC.

#### 2.3.18 WiMax Forum and WiMax

The WiMAX Forum is an industry-led, not-for-profit organization formed to certify and promote the compatibility and interoperability of broadband wireless products based upon the harmonized IEEB 802.16/ETSI HiperMAN standard. One of the WiMAX Forum's goals is to accelerate the introduction of these systems into the marketplace. WiMAX Forum Certified<sup>TM</sup> products are fully interoperable and support broadband fixed, portable and mobile services. Along these lines, the WiMAX Forum works closely with service providers and regulators to ensure that WiMAX Forum Certified systems meet customer and government requirements. WiMax means Worldwide Interoperability for Microwave Access is a telecommunications technology that provides wireless transmission of data using a variety of transmission modes, from point to multipoint links to portable and fully mobile internet access. The technology provides up to 10 Mbps broadband speed without the need for cables. The technology is based on the IEEE 802,16 standard (also called Broadband Wireless Access). The name "WiMAX" was created by the WiMax Forum, which was formed in June 2001 to promote conformity and interoperability of the standard. The forum describes WiMAX as "a standards-based technology enabling the delivery of last mile wireless broadband access as an alternative to cable and DSL<sup>n</sup>. If requested by the TM, the Contractor shall attend WiMax meetings.

## 2.3.19 IEEE 802.16

The IEEE 802.16 Working Group on Broadband Wireless Access Standards develops standards and recommended practices to support the development and deployment of broadband Wireless Metropolitan Area Networks. IEEE 802.16 is a unit of the IEEE 802 Local Area Network/Metropolitan Area Network (LAN/MAN) Standards Committee. If requested by the TM, the Contractor shall attend IEEE802.16 meetings.

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#### 2.3.20 IMS Industry Requirements Group

The current trend in the telecommunications industry is for Service Providers to offer voice, data, and multimedia services using IP-based networks. There are numerous industry and Government efforts and industry standards activities related to specifying various access and core network architectures and services. To this end, the OMNCS has spearheaded an effort with Industry to develop Industry Requirements (IRs) that transcribe the existing functionality of the GETS, WPS and SRAS services onto these new architectures.

The Contractor shall continue the work of defining and refining these IRs. The Contractor will record and document the results of the IR process. Teaming with the OMNCS and its key contractors, the Contractor shall build upon the on-going industry efforts in the development of Issue 2 of the Core and Access IRs to support NGN priority voice, video and data services. The Contractor shall coordinate, identify, and resolve key technical and strategic issues associated with these IRs. The Contractor shall work within the IR process to ensure that NGN Priority Services capabilities are incorporated into the Core network and Access network IRs.

The Contractor shall coordinate with the on-going OMNCS standards team work program. As needed and based on the IR work process and development, the Contractor shall compose (develop) technical contributions or associated IR reports and recommend the submission of these contributions or reports to the appropriate standards entities to enable the work of the IMS Industry Requirements Group to become part of emerging national and international standards of the telecommunication industry.

To align the IRs and to harmonize relevant technical specifications, the Contractor shall also take into account during the development of proposed technical contributions or reports, the NGN architecture that will facilitate the telecommunication industry support for NGN Priority Services offerings.

#### 2.3.21 Standards Meeting Reporting and Analyses

United States Government agencies, and major United States telecommunication Service Providers, spend millions of dollars annually for active participation in national and international telecommunication standards bodies. Telecommunication standards are important because they facilitate the integration of new technologies into the United States telecommunication systems, systems that are essential to the United States economic health in the global economic marketplace.

In recent years, due to the rapid pace of technological progress and ever faster product development cycles, there has been a proliferation in the number of telecom-related standards bodies and an increase in the pace of such work. At the same time, however, the economic downturn in the telecommunication industry is causing government agencies, Service Providers and their companies to continually reduce personnel to increase cost effectiveness.

The contractor shall subscribe as a client and provide access to a web-based information delivery system, such as the Telcordia Standards Knowledgebase (TSK) service or similar service for up to a maximum of 100 designated users. The service shall provide information products such as meeting-specific and topic-specific analysis reports, relating to current and emerging telecommunications technologies. This reporting mechanism will provide high-level and useful overviews of contemporary standardization activities at major national and international telecommunication related standards development committees, groups, entities, etc.

The detailed scope of the proposed work effort includes the following:

- Coverage of specified US and international telecommunication standards bodies.
- Coverage of specified telecom technology sub-topics related to telecommunication standards developments.

The Contractor shall perform the following tasks:

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- Provide a web-based information delivery system for use by the OMNCS community (up to a maximum of 200 Users) with access to:
- Approximately 40 or more meeting-specific or topic-specific standards issues analysis reports per year in "Reports".
  - The meeting-specific reports are issued following the regularly-scheduled meetings held each year by over a dozen major standards committees.

The list of covered committees shall include but not necessarily be limited to:

- 3GPP
- IEEE 802
- IETF
- ATIS IIF (IPTV Interoperability Forum)
- ATIS PTSC
- ATIS TMOC
- ITU-T Study Group 2
- ITU-T Study Group 11
- ITU-T Study Group 13
- ITU-T Study Group 16
- ITU-T NGN-GSI
- OIF (Optical Internetworking Forum)
- TM Forum

In addition, the Contractor may be requested to report on the following standards activities: ATIS SON, ITU-T Study Group 15, plus some security-related committees such as ITU-T Study Group 17.

The aforementioned list of covered committees may change by mutual agreement of the COTR and the Contractor, during the task order year as the relevance of the standards bodies, associated committees, entities, etc. changes due to the maturing of standards projects, the appearance of new entities, committees, etc. or mergers between or among existing these occur.

Topic-specific reports focus on the standardization of different areas of telecommunications technology (e.g., IPTV, NGN, E911, IP Telephony, IEEE LAN/WAN and WiMax Standards, OAM, Optical, Gigabit Ethernet, etc.) that are being standardized in multiple standards bodies. Contractor topic-specific reports shall provide a window into the latest developments in standards work in the past quarter. The Contractor shall issue at least one topic-specific report per quarter.

The Contractor shall provide a "Hot Topics" database. The Hot Topics database shall consist of a database that contains concise, timely impact analyses (bulletins) on critical issues and latebreaking news on specific telecom technology issues as appropriate.

OMNCS Users shall have access to reports and from the Hot Topics database via web-based tools such as a Report Navigator and the Hot Topic Navigator. Users shall be able to access the Reports' archive and Hot Topics database via browsing by standards committee, by telecom technology area, by keyword or by the priority level of key issues. These and other web tools associated web site enabling tools shall enable users to have 24 hour 7 days access to reports. The Contractor shall make all meeting-specific reports available within fifteen (15) days following a standards meeting completion. The information products described above shall be provided electronically, via email and web site. The following table depicts estimated travel requirements, which are subject to change:

Meeting	Approx Dates	Probable Location	# of Contractor Personnel Required
	3GPP		
3GPP SA 1#54	9-13 May 2011	Xian China	1
3GPP SA 1#55	8-12 Aug 2011	Dublin IE	1
3GPP SA 2#83	21-25 Feb 2011	Salt Lake City UT	1
3GPP SA 2#84	11-15 Apr 2011	Bratislava	1
3GPP SA 2#85	16-20 May 2011	China	1
3GPP SA 2#86	11-15 July 2011	Naantali Finland	1
3GPP SA 2#87	10-14 Oct 2011	Asia	1
3GPP CT 1#71/ 3#63/ 4#53	9-13 May 2011	Tallinn Estonia	2
3GPP CT 1#72/ 3#64	27 Jun - 1 Jul 2011	China	2
3GPP CT 1#73/ 3#65/ 4#54	22-26 Aug 2011	Malta	2
3GPP CT 1#74/ 3#66/ 4#55	1-14 Oct 2011	India	2
3GPP CT 1#75/ 3#67/ 4#56	14-18 Nov 2011	USA	2
3GPP RAN 2#73	11-15 Apr 2011	China	1
3GPP RAN 2#74/ 3#72	9-13 May 2011	Japan	1
3GPP RAN 2#75/ 3#73	22-26 Aug 2011	Athens Greece	1
3GPP RAN 2#75 BIS	10-14 Oct 2011	China	1
3GPP RAN 2#76/ 3#74	14-18 Nov 2011	USA	1
3GPPRAN2	2011	US	1
	3GPP2	2	
3GPP2/TR45.8	28 Mar - 1 Apr 2011	South Korea	1
3GPP2/TR45.8	23-27 May 2011	Dallas TX	1
3GPP2/TR45.8	25-29 Jul 2011	Japan	• 1
3GPP2/TR45.8	26-30 Sep 2011	China	1
3GPP2/TR45.8	5-9 Dec 2011	Hawaii	1
3GPP2/TR45.8	1-2 Jun 2011	US	1

#### **Primary Standards Meeting Support – As directed by the Government:**

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Meeting	Approx Dates	Approx Dates Probable Location	
,	ITU-T NGN-GSI (S	G11 & SG13)	
ITU-T NGN GSI	9-20 May 2011	Geneva	* 2
ITU-T NGN GSI	10-21 Oct 2011	Geneva	2
ITU-T NGN GSI	2-17 Feb 2012	Geneva	2
·····	ITU-T SC	G16	4 <b>1</b>
ITU-T SG 16	14-25 Mar 2011	Geneva	1
ITU-T SG 16	21 Nov-2 Dec 2011	· Geneva	1
	ATIS PT	SC	
ATIS PTSC	Jan/Feb 2011	US	2
ATIS PTSC	Apr/May 2011	US	2
ATIS PTSC	19-30 Aug 2011	Montreal or Vancouver	2
ATIS PTSC	1-5 Nov 2011	Savannah, GA	2
	TM Fo	rum	
TM Forum	20-26 Mar 2011	Cascais Portugal	1
TM Forum	18-22 July 2011	Baltimore MD	1
TM Forum	23-27 Jan 2012	Europe	1

# Secondary Standards Meeting Support - At the discretion of the Government:

Meeting	Approximate Meeting Dates	Probable Location	# of Contractor Personnel Required
	3GPP		
3GPP SA#51	21-23 Mar 2011	Kansas City	1
3GPP SA#52	6-8 Jun 2011	Bratislava	1
3GPP SA1#55	8-12 Aug 2011	Dublin	1
3GPP \$A2#88	14-18 Nov 2011	USA	1
3GPP RAN#51	15-18 Mar 2011	Kansas City	1
	WIMAX Gr	двр	<u>.</u>
WiMAX Forum NWG	1-5 Nov 2011	Dallas TX	1
WIMAX	17-21 Mar 2011	Xiamen China	1
WIMAX	9-13 May 2011	San Diego CA	1
WIMAX	25-29 Jul 2011	San Francisco CA	1
WIMAX	12-16 Sep 2011	Bankok Thailand	1
	IEEE802.16 G	roup	
IEEE802,16	13-18 Mar 2011	Singapore	1
IEEE802.16	16-20 May 2011	Alberta Canada	1
IEEE802.16	18-21 Jul 2011	San Francisco CA	1
IEEE802.16	19-22 Sep 2011	TBD	1

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	ATIS WTS	C Group	······
ATIS WTSC	2011	US	. 1
,	ATIS TMO	C Group	
ATIS TMOC	Apr/May 2011	Minneapolis MN	1
Study Grou	ips 15, 17, IETF, Open Mo	bile Alliance, and DoS Prepara	atory
ITU-T SG 15	TBD, 1 meeting	Geneva	1
ITU-T SG 17	TBD, 2 meetings	Geneva	1
IETF	TBD, 1 meeting	TBD	1
OMA	TBD, 1 meeting	TBD	1
DoS ITU-T Preparatory	TBD	Wash DC metro	TBD

#### Notes on Travel for Meetings:

The Contractor may expect to incur periodic local travel (within a 50 mile radius of the capital region); however, local travel will not be reimbursed. Long distance travel costs for this effort (especially travel related to standards participation) must have prior approval of Government COTR.

- 1. All long distance contractor travel shall be in accordance with the Federal Travel Regulations. The contractor shall submit a travel request, via email, to the COTR thirty (30) days prior to scheduled departure date. (Upon approval, the COTR will issue a travel authorization letter that may be used to obtain government rates at lodging facilities.) The contractor shall provide the following information in the travel request;
  - Name of traveler(s)
  - Dates and location of proposed travel
  - Reason for travel and the work to be accomplished

The contractor is encouraged to purchase non-refundable tickets whenever feasible to reduce travel costs.

- 2. Projections of an additional number of meetings are made as "TBD" without specific dates and locations. These specific projections are based on historical data with respect to the frequency of meetings. Therefore, contractor shall take into account historical data as necessary with respect to 'Travel."
- 3. Travel may be slightly adjusted by the Government due to events out of control of the Government, such as: weather, standards group reorganizations, unforeseen adjustments or cancellations of standards meetings, etc.

#### 2.4 Task 4: Network Modeling

The OMNCS uses telecommunications modeling and simulation capabilities to conduct analysis in support of NGN Priority Services. Because of significant technological changes in the public switched network, these capabilities are continually reviewed to assess their applicability to the newer technologies. The Contractor shall provide technical consultation on modeling issues crucial to the delivery of NGN Priority Services, support data acquisition for critical infrastructure vulnerability assessments, and perform ad hoc telecommunications studies/analyses as required. The Contractor shall build upon existing studies, computer simulations, and other reliability analyses to provide traffic-engineering tools to assist in assessing and optimizing public network reliability, identifying network disruptions, and restoring services in support of PDD-63 and associated Critical Infrastructure Protection (CIP) initiatives. The Contractor shall create end to end models and tests to validate that the various access and core NGN Priority Services mechanisms developed as Industry Requirements (IRs) actually perform as expected. This subtask shall entail developing realistic NS/EP test scenarios and traffic conditions for the end to end models.

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- 2.4.1 Provide ad hoc telecommunications analyses/analysis verification as required
- 2.4.2 Provide telecommunications and modeling consultation, in person or via teleconference, on telecommunications and modeling topics selected jointly with the Government.
- 2.4.3 Support acquisition of communications asset and topology data when requested.
- 2.4.4 Process all received data and summarize results in MS Word documents, MS Excel spreadsheets, and/or MS PowerPoint files, as designated by the Government Task Lead.
- **2.4.5** Provide guidance and advice in securing the necessary data access agreement with the carrier(s)
- **2.4.6** Develop modeling whitepapers in MS Word and/or MS PowerPoint files, or as designated by the TM. Potential topics include, but are not limited to:
  - network recovery process after attacks/outages
  - priority services deployment using next generation network (NGN) communications technologies
  - multimedia network traffic characteristics and their impacts on admission control and priority routing schemes

#### 2.5 Task 5: Cable Infrastructure Support

As directed by the COTR, the Contractor will provide the following services:

- **2.5.1** Periodic (minimum: quarterly) updates of UCI standalone SQL Database to provide accurate data for quantifying the health of the UCI. The updates include:
  - New cables systems (including capacity, cable landings information etc.)
  - Retired cable systems
  - Upgraded cable systems (e.g., cable systems upgraded to DWDM)
  - Service affecting outages
  - Number of repair ships in service
- 2.5.2 Enhancements to UCI Health Metric and SQL Database
- **2.5.3** Characterization of undersea cable traffic for cable systems within routes designated by the COTR (i.e., from US to Europe, US to Asia, US to Middle East, etc.)

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- 2.5.4 Recommendation for virtualizing UCI information to other Government departments and agencies in support of the missions associated with understanding and mitigating UCI vulnerabilities
- **2.5.5** Briefings and White papers as directed by the COTR

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#### 2.6 Task 6: Security and Reliability

- **2.6.1** The Contractor shall coordinate with other key contractors and interact with the appropriate industry players, to
  - Develop the NGN Priority Services security specifications for the access and core networks
  - Develop technical and strategic views of the required security functionality for NS/EP priority services
  - Perform risk analyses of the NGN Priority Services architecture and underlying network infrastructure under various cyber threat conditions
  - Determine the security scope to address access network and core network efforts
  - Help obtain industry cooperation with the security functionality being incorporated into the Access Network IRs and the IMS Core Network IR. This will include developing and maintaining schedules for the industry efforts.
- 2.6.2 The Government may require the Contractor to develop and test prototype implementations of key security functionality tied to an NGN Priority Services implementation within an IMS test bed to verify the feasibility of creating integrated solutions. The results of this prototype testing will be presented in a technical report and will be fed back into the requirements process where necessary.
- 2.6.3 The Contractor shall work with OMNCS standards representatives to identify and resolve technical issues relating to NGN Priority Services security work efforts, as appropriate. Based on the specific access network, security requirements, and the core network security baseline, this security task may include the technical contributions to be submitted to the various industry standards bodies, as appropriate. The Contractor shall work with industry to harmonize and align all standards activities with the NGN Priority Services security specifications.

## 2.7 <u>Task 7: Demonstrations/Prototypes/Tests/Comparative Studies</u>

The OMNCS is focused on rapidly developing communications technologies and how best to exploit these technologies to support NGN Priority Services requirements. Short-term demonstrations of these capabilities, products, and concepts might be required—in addition to analytical testing—to prove the performance of different vendor products, technical approaches, or concepts. These demonstrations or tests shall minimally be in the areas of security, signaling, wireless, and packet-based technologies. As directed by the COTR, the Contractor will provide the following services:

- 2.7.1 Construct prototype(s) or test-bed(s) which simulate the implementation characteristics of the priority services applications, security, and signaling technologies
- 2.7.2 Validate the performance requirements specified in the NGN Priority Services industry requirements groups for access and core networks

2.7.3 Develop service level performance and reliability specifications.

2.7.4 Conduct demonstrations and/or testing studies to validate the performance of different vendor products, technical approaches, or concepts. These demonstrations and testing studies shall include, but not limited to, the following:

- End-to-end performance testing (including access and core networks)
- Testing of multi-access networks (including communications between different technologies networks, e.g., WIMAX and LTE networks)
- Testing of multi service provider networks

## 3 <u>Deliverable/Delivery Schedule:</u>

Following are details of the deliverables for the relevant tasks:

Task #	CDRL	Deliverable title	Due Date	Distribution	Frequency /Remarks
4.1,4	A001	Task Order Management Plan (TOMP)	Within 15 days of TO award	Standard*	As directed by COTR
4.1.5	A002	Initial Technical Inter- change Meeting (TIM)	Within 15 days of TO award	Standard*	As directed by COTR
4.1.5	A003	Subtask TIMs	As directed by the COTR	Standard*	Up to quarterly for each subtask
4. <b>1</b> .6	A004	Quarterly Program Status Review (QPSR)	Within 15 days after the end of Quarter	Standard* (include ali Gov't Task Leads)	Quarterly
4.1.7	A005	Monthly Status Report (MSR)	Within 5 days after end of month	Standard*	Monthly
4.2	A006	Technical Reports	As directed by the COTR	Standard*	As directed by the COTR
		Contraction in the second		an a statement	And a state of the state of the
4.3	A007	Technical Contributions or Technical Meeting Report or Minutes of Meetings	15 Days after each meeting or as directed by the COTR	Standard*	As directed by the COTR; up to five contributions per meeting; up to six IR reports
				Stational States	
4.4.3	A008	Ad hoc analysis/verification report	As directed by the COTR	Standard*	As directed by the COTR
4.4.4	A009	Asset and topology data summary	As directed by the COTR	Standard*	As directed by the COTR
4.4.6	A010	Network modeling whitepapers	As directed by the COTR	Standard*	As directed by the COTR
4.4.7	A011	Project Plans and Work Breakdown Structures	As directed by the COTR	Standard*	As directed by the COTR

Task #	CDRL	Deliverable title	Due Date	Distribution	Frequency /Remarks
4.5.3	A012	UCI Traffic Characterization	As directed by the COTR	Standard*	As directed by the COTR
4.5.4/5	A013	UCI Web Portal Development/Hosting	Beta version = TO award + eight mos; Final version = end of PoP	Standard*	As directed by the COTR
4.5.7	A014	Web Portal Training and Documentation	At Beta version release	Standard*	As directed by Gov't Task Lead
4.5.8	A015	Briefings and Whitepapers	As directed by the COTR	Standard*	As directed by the COTR
4.6.1	A016	Industry efforts schedule	As directed by the COTR	Standard*	As directed by the COTR
4.6.2	A017	Security Prototype Assessment Technical Report	As directed by the COTR	Standard*	As directed by the COTR
4.6.3	A018	Security Technical Contributions	As directed by the COTR	Standard*	As directed by the COTR
4.7	A019	Demonstrations/Testing	As directed by the COTR	Standard*	As directed by the COTR

\*Standard Distribution

- 1 electronic copy (via email) of the transmittal letter without the deliverable to the Contracting Officer (CO)
- 1 electronic copy (via email) of the transmittal letter and the deliverable to the COTR
- 1 electronic copy (via email) of the transmittal letter and the deliverable to the appropriate Government Task Lead

## 4 Ad hoc Surge Support (Optional:

As determined to be necessary and as approved by the Government, the Contractor shall provide additional support to meet operational requirements. The Contractor shall seek Government approval in advance before incurring any costs associated with surge support. Government approval shall be authorized by the Contracting Officer. The surge support includes tasks 1 through 7. Surge Support labor categories shall only be those labor categories pertinent to the task order upon award. All other labor categories shall be negotiated separately.

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## 5 Packaging, Packing, and Shipping:

Final documentation deliverables shall be provided in hard and soft copy using Microsoft Office compatible products. Daily, weekly, interim, informal deliverable and working-copy products required for on-going general support may be provided by e-mail or disk (CD) as approved by the COTR.

**Final Soft Copy Materials:** Final soft copy deliverables shall be developed using the current version of Microsoft OFFICE software (Word, PowerPoint and/or other applications) and provided on a CD-ROM or other government-approved medium. If more than one deliverable is provided at the same time, deliverables may be on the same software medium.

Final Hard Copy Materials: Final hard copy shall be type-written on  $8 \frac{1}{2}$  x 11" papers, sized appropriately for the intended deliverable. The Contractor shall not use spiral binding or other binding that interferes with photocopying.

## 6 Inspection and Acceptance:

Acceptance Criteria: The COTR will review all draft and final deliverables to ensure accuracy, functionality, completeness, professional quality, and overall compliance with the guidelines/requirements of the delivery order The Contractor shall ensure the accuracy and completeness of the deliverable. Errors, misleading, or unclear statements, incomplete or irrelevant information, and or excessive rhetoric, repetition, and "padding", shall be considered deficiencies and shall be subject to correction by the Contractor at no additional cost to the Government. Unless otherwise indicated, the government will require fifteen (15) working days to review and comment on deliverables. If the deliverable does not meet the noted criteria, the Government will return it.

**Rejection Procedures:** After notification that the deliverable did not meet the acceptance criteria, the Contractor shall resubmit an updated/corrected version within ten (10) working days after receipt of Government comments. Upon re-submission by the Contractor, the Government will reapply the Acceptance Criteria. If the corrected version of the deliverable does not meet the acceptance criteria, the Government may consider the Contractor as having deficient performance with respect to the subject task. The Government shall have fifteen (15) working days to respond to deliverables. However, no response regarding a deliverable by the Government on or after the 16<sup>th</sup> day shall be deemed acceptable.

## 7 Other Pertinent Information or Special Considerations:

**Identification of Non-Disclosure Requirements:** Access to proprietary data is not a fundamental requirement for execution of this task. However, when access to proprietary information is necessary to perform work, the Contractor shall be required to sign a Non-Disclosure Agreement with various members of the telecommunications industry to include at a minimum, but not limited to: Akamai, AT&T, Verizon Business, QWEST, Sprint, VERIZON and Telcordia Technologies. Contractor and all individuals involved in the NSIE tasks are required to sign the NSIE NDA upon award of the task order.

**Intellectual Property Rights:** All specified draft and final deliverables become the property of the Government. All model(s) and prototypes, including all source code, compiled code, executable code, object and software algorithm that the Contractor may develop under this contract shall become the property of the Government. All OMNCS databases and the providers' proprietary data shall be used solely for official government purposes.

# 8 Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI):

**GFE:** Government Furnished Equipment (GFE) is provided as shown in the table below. If the mission requires, the Government will provide additional GFE at the Contractor's request or authorize purchase/rental of the equipment. Upon completion of this task order, the Contractor shall

submit a complete inventory of all GFE in their possession under the task order that has not been tested to destruction, completely expended in performance, or incorporated and made a part of a deliverable end item. The Program Office will furnish disposition instructions for all property furnished or purchased under this Task Order. The following GFE is provided:

Mfr/Model/Part No	Item Description	Serial Number	Qty
Acme Packet NN4250-SD- S.25-G2	Session Border Controller	090818002268	1
APC Backplate Kit	UPS backplate kit	ZS0729023005 / ZS729023008	2
APC Back-UPS ES 725	Battery Backup	3B0652X40585	1
APC Netshelter rack	Deep enclosure	ON0819B0309	1
x 195,25, 195,165,1 1		5A0808E03336 / 2A0809014030 / ZA0803012906 /	
APC PDU	Switched PDU	ZA0803012104 JS0725019191 / JS0725019195 /	4
APC Smart-UPS XL 3000VA	UPS	SJS0735001196 / SJS0735001199	4
APC SUA1000RM1U	rack-mount UPS	AS0751292681	1
Aten ATN-CL1000M	LCD DVM Integrated Console	A17B-068AC-0032 FCZ101070UT /	1
Cisco 2651XM	Router	JHY0736K1QZ / JHY0909K0TH ~	3
Cisco 3725	Router	FTX1040A464	1
Cisco ASR1002	Router	F0X1239H6AR / F0X1239H696 / F0X1237HAHM	3
Cisco ASA540	Security appliance	JMX1231L0WG	1
Cisco Catalyst 2960	Switch	FOC1227Y20X / FOC1227Y20C	2
Cisco Catalyst WS-C3550- 24PWR	Inline power	CAT0808R21C	1
Dell KMM Console	Kybd, monitor, mouse console	A516	1
Dell CTA-DMS- 1u32X2p1HD-a-r	Server, MRF Media	DHHJWG1	1
Dell PowerEdge 2950	Server	1P7N5D1 / 2V9N5D1 / 3V9N5D1 / JT9N5D1	4
Dell PowerEdge 860	Server	3L646D1 / 7L646D1 / 6R646D1 / 7R646D1 / 4R646D1 / 1R646D1 / 5L646D1	7
Dell PowerEdge DSB-1750	Server	D0MGX51	1
Dell PowerEdge 2950	Server, Quad Core Xeon X5460	4JTLRG1 / 6JTLRG1 / 7JTLRG1	3

Mfr/Model/Part No	Item Description	Serial Number	Qty
Min Min / Houel/ II. ar eno	Server, Quad Core		··· · · · · · · · · · · · · · · · · ·
Dell PowerEdge R200	Xeon X3320	82H1RG1 / B2H1RG1	2
Intel IMX-TIGW-2-AC	Server	CFTM8160127	1
LG 50PM1M	50" Plasma TV	705RMUY061686 / 705RMZL061773	2
Peerless SR560M	Plasma Cart		2
Polycom Eagle Eye MPTZ-6	Video Camera	07243165 / 17141797	2
Polycom Powercam VSX 8000	Video Camera	000EF2 / 000FAE	2
Polycom HDX Mica Microphone	Microphone Kit	'820708000FFEC6	1
Polycom VSX Mic Array	Microphone Kit	02CEC9 / 02AAA7	2
Polycom HDX9004 Codec	Video Codec	07C5E0C9 / 072D05	1
Polycom VSX Codec 8400	Video Codec	0849CC	1
Polycom Image Share II	Image Share	088014	1
Polycom Mic Array HDX9004 / VSX	Microphone Kit	8207080011A0C5 / 8207080010EAC6 / 82072202D187AM	3
Polycom RMX2000 MCU	Conference Bridge	VR2070627007	1
Polycom SE200	Management Appliance	0090FB125068	1
Scopia-100 MCU24	A/V Conference Unit	0826070046	1
Sonus GNS15	GNS15-3 Assy.	804089399	1
Sonus GSX4010-AC-1512- NR	Non-Redundant Span Gateway	811083019	1
SUN EMS-N240-2-a-c	Server, Netra 240	50836FMA023 / 50836FMA0HG / 50748FMACAE	3

**GFI:** The Government will provide information to facilitate Contractor performance of work with respect to Section 6.20 IMS Industry Requirements Group. The titles of this information are as follows: Core IR Document, Access IR HRPD Document, Access eHRPD Document, Access IR UMTS Document, Access IR LTE Document, Access IR WiMAX Document, Access IR Satellite Document. DHS is not providing any intellectual property rights in the Government Furnished Information beyond the date of termination or closure of the contract.

#### 9 <u>Security</u>

#### **Contract Security Classification**

This contract effort is unclassified.

#### **Contractor Information**

Performance of this contract requires the Contractor to gain access to classified National Security Information (includes documents and material) and sensitive but unclassified (SBU) information. Classified information is Government information which requires protection in accordance with Executive Order 12958, National Security Information (NSI) as amended and supplemental directives. SBU is unclassified information for official use only. Contractor employees that do not have a security clearance and require access to SBU information will be given a suitability determination. Requirements for suitability determination are defined in paragraph 3.0, security language for SBU contracts.

The Contractor shall abide by the requirements set forth in the DD Form 254, Contract Security Classification Specification, an attachment to the contract, and the National Industrial Security Program Operating Manual (NISPOM) for protection of classified information at its cleared facility, if applicable, as directed by the Defense Security Service. If the Contractor is required to have access to classified information at a DHS or other Government Facility, it shall abide by the requirements set forth by the agency.

## 10 Employment Eligibility

Subject to existing law, regulations and/or other provisions of this contract, illegal or undocumented aliens shall not be employed by the Contractor or perform on this contract. The Contractor shall ensure this provision is expressly incorporated into any and all subcontracts or subordinate agreements issued in support of this contract.

## 11 Continued Eligibility

DHS reserves the right to deny and/or restrict entrance to government facilities, prohibit employees from assigned work under the contract, deny and/or restrict handling of classified documents/material to any Contractor employee who DHS determines to present a risk of compromising classified and/or sensitive Government information.

The DHS Security Office may require drug screening at any time for probable cause and/or when the Contractor independently identifies circumstances where probable cause exists.

The Contractor shall report to the DHS Security Office any and all adverse information brought to their attention concerning employees performing under this contract. Reports based on rumor or innuendo shall not be included. The subsequent termination of employment of an employee does not obviate the requirement to submit this report. The report shall include the employee's name and social security number, along with the adverse information being reported.

## 12 Termination

The DHS Security Office shall be notified of all terminations/resignations within five (5) days of occurrence. The Contractor shall return all DHS-issued identification cards and building passes that

have either expired or been collected from terminated employees to the COTR. If an identification card or building pass is not available to be returned, a report shall be submitted to the COTR, referencing the pass or card number, name of individual to whom issued, and the last known location or disposition of the pass or card.

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#### 13 Security Management

The Contractor shall appoint a senior official to act as a Security Officer. The individual shall interface with the DHS Security Office, through the COTR, on all security matters, to include physical, personnel, and protection of all classified documents/material handled by the Contractor.

The COTR and DHS Security Office will have the right to inspect procedures, methods and facilities utilized by the Contractor to comply with the security requirements under this contract. Should the COTR or DHS Security Office determine the Contractor is not in compliance with the security requirements of the contract, the Contracting Officer will notify the Contractor, in writing, of the appropriate action that will be taken to rectify any non-compliance.

#### 14 Suitability Determination

DHS shall exercise full control over granting, denying, withholding or terminating unescorted government facility and/or access to or handling of both classified and sensitive Government information to Contractor employees based upon the results of a background investigation. DHS may, as deems appropriate, authorize and grant a favorable entry on duty (EOD) decision based on preliminary security checks. The favorable EOD decision would allow the employees to commence work temporarily prior to the completion of the full investigation. The granting of a favorable EOD decision shall not be considered as assurance that a full employment suitability authorization will follow as a result thereof. The granting of a favorable EOD decision or a full employment suitability determination shall in no way prevent, preclude, or bar the withdrawal or termination of any such access by DHS, at any time during the term of the contract. No employee of the Contractor shall be allowed unescorted access to a Government facility without a favorable EOD decision or suitability determination by the Security Office. Contract employees assigned to the contract not requiring access to sensitive DHS information or recurring access to DHS facilities will not be subject to security suitability screening.

Contract employees waiting for an EOD decision may begin work on the contract provided they do not access sensitive Government information. Limited access to Government buildings is allowable prior to the EOD decision if the Contractor is escorted by a Government employee. This limited access allows Contractors to attend briefings, non-recurring meetings and begin transition work.

### 15 **Background Investigations**

Contract employees (to include applicants, temporaries, part-time and replacement employees) under the contract, requiring access to sensitive information, shall undergo a position sensitivity analysis based on the duties each individual will perform on the contract. The results of the position sensitivity analysis shall identify the appropriate background investigation to be conducted. All background investigations will be processed through the DHS Security Office. Prospective Contractor employees shall submit the following completed forms to the DHS Security Office through the COTR no less than thirty (30) days before the start date of the contract, or thirty (30) days prior to entry on duty of any employees, whether a replacement, addition, subcontractor employee, or vendor:

- Standard Form 85P, "Questionnaire for Public Trust Positions"
- FD Form 258, "Fingerprint Card" (2 copies)
- Conditional Access To Sensitive But Unclassified Information Non<sup>a</sup>Disclosure Agreement (DHS Form 11000-6)
- Disclosure and Authorization Pertaining to Consumer Reports Pursuant to the Fair Credit Reporting Act (DHS Form 11000-9)

Required forms will be provided by DHS at the time of award of the contract. Only complete packages will be accepted by the DHS Security Office. Specific instructions on submission of packages will be provided upon award of the contract.

Be advised that unless an applicant requiring access to sensitive information has resided in the US for three of the past five years, the Government may not be able to complete a satisfactory background investigation. In such cases, DHS retains the right to deem an applicant as ineligible due to insufficient background information.

The use of Non-U.S. citizens, including Lawful Permanent Residents (LPRs), is not permitted in the performance of this contract for any position that involves access to or development of any DHS Information Technology (IT) systems. DHS will consider only U.S. Citizens and LPRs for employment on this contract. DHS will not approve LPRs for employment on this contract in any position that requires the LPR to access or assist in the development operation, management or maintenance of DHS IT systems. By signing this contract, the Contractor agrees to this restriction. In those instances where other non-IT requirements contained in the contract can be met by using LPRs, those requirements shall be clearly described.

## 16 Information Technology Security Clearance

When sensitive government information is processed on Department telecommunications and automated information systems, the Contractor shall provide for the administrative control of sensitive data being processed and adhere to the procedures governing such data as outlined in "DHS IT Security Program – Publication DHS MD 4300.Pub". Contractor personnel must have favorably adjudicated background investigations commensurate with the defined sensitivity level.

Contractors who fail to comply with Department security policy are subject to having their access to Department IT systems and facilities terminated, whether or not the failure results in criminal prosecution. Any person who improperly discloses sensitive information is subject to criminal and civil penalties and sanctions under a variety of laws (e.g., Privacy Act).

#### 17 Information Technology Security Training and Oversight

All Contractor employees using Department automated systems or processing Department sensitive data shall be required to receive Security Awareness Training. This training will be provided by the appropriate component agency of DHS.

Contractors involved with management, use, or operation of any IT systems that handle sensitive information within or under the supervision of the Department, shall receive periodic training at least annually in security awareness and accepted security practices and systems rules of behavior. Department Contractors, with significant security responsibilities, shall receive specialized training

specific to their security responsibilities annually. The level of training shall be commensurate with the individual's duties and responsibilities and is intended to promote a consistent understanding of the principles and concepts of telecommunications and IT systems security.

All personnel who access Department information systems will be continually evaluated while performing these duties. Supervisors should be aware of any unusual or inappropriate behavior by personnel accessing systems. Any unauthorized access, sharing of passwords, or other questionable security procedures should be reported to the local Security Office or Information System Security Officer (ISSO).

## 18 3052.209-72 Organizational Conflict of Interest. (JUN 2006)

(a) Determination. The Government has determined that this effort may result in an actual or potential conflict of interest, or may provide one or more offerors with the potential to attain an unfair competitive advantage. The nature of the conflict of interest and the limitation on future contracting ["contracting officer shall insert description here"].

(b) If any such conflict of interest is found to exist, the Contracting Officer may (1) disqualify the offeror, or (2) determine that it is otherwise in the best interest of the United States to contract with the offeror and include the appropriate provisions to avoid, neutralize, mitigate, or waive such conflict in the contract awarded. After discussion with the offeror, the Contracting Officer may determine that the actual conflict cannot be avoided, neutralized, mitigated or otherwise resolved to the satisfaction of the Government, and the offeror may be found ineligible for award.

(c) Disclosure: The offeror hereby represents, to the best of its knowledge that:

(1) It is not aware of any facts which create any actual or potential organizational conflicts of interest relating to the award of this contract, or

(2) It has included information in its proposal, providing all current information bearing on the existence of any actual or potential organizational conflicts of interest, and has included a mitigation plan in accordance with paragraph (d) of this provision.

(d) Mitigation. If an offeror with a potential or actual conflict of interest or unfair competitive advantage believes the conflict can be avoided, neutralized, or mitigated, the offeror shall submit a mitigation plan to the Government for review. Award of a contract where an actual or potential conflict of interest exists shall not occur before Government approval of the mitigation plan. If a mitigation plan is approved, the restrictions of this provision do not apply to the extent defined in the mitigation plan.

(e) Other Relevant Information: In addition to the mitigation plan, the Contracting Officer may require further relevant information from the offeror. The Contracting Officer will use all information submitted by the offeror, and any other relevant information known to DHS, to determine whether an award to the offeror may take place, and whether the mitigation plan adequately neutralizes or mitigates the conflict.

(f) Corporation Change. The successful offeror shall inform the Contracting Officer within thirty (30) calendar days of the effective date of any corporate mergers, acquisitions, and/or divestitures that may affect this provision.

(g) Flow-down. The contractor shall insert the substance of this clause in each first tier subcontract that exceeds the simplified acquisition threshold.

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## 19. Other Limitations

The Contractor does not have any rights under the contract to use the DHS seal or other DHS intellectual property without specific permission from the Contracting Officer

# 20. <u>Clauses incorporated by reference</u>

52.227-11Patent Rights – Ownership by the Contractor52.227-16Additional Data RequirementsRights in Data – Special Works

# REFERENCES

## **DHS Office of Security**

DHS, Office of Security Deputy Chief, Personnel Security Staff Attn: Kimberly Lew Washington DC 20528 Telephone (b)(6)

## Defense Security Service

Defense Industrial Security Clearance Office (DISCO) 2780 Airport Drive Suite (b)(6) Columbus, Ohio, 43219-2268 Phone (b)(6) Fax: (614) 827-1635

2. AMENDMENT/MODIFICATION NO.       3. EFFECTIVE DATE         P00004       08/18/2011         8. ISSUED BY       CODE         DHS/OPO/NPPAD/CS         U.S. Dept, of Homeland Security	4 REQUISITION/PURCHASE REQ. NO 5 PROJECT NO. (// ann//cobia)
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S. ISSUED BY CODE DHS/OPO/NPPAD/CS U.S. Dept, of Homeland Security	4 REQUISITION/PURCHASE REQ. NO 5, PROJECT NO. (If applicable)
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Office of Procurement Operations	U.S. Dept, of Komeland Security Office of Procurement Operations
NPPD Acquisition Division	NPPD Acquisition Division
245 Murray Lane, SW	245 Murray Lane, SW
Building 410	Building 410
Washington DC 20528	Washington DC 20528
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CIENCE APPLICATIONS INTERNATIONAL CORPORATION	
YBER AND INFORMATION SOLUTIONS CO	9B. DATED (SEE /TEM 11)
841 BENJAMIN DAVIS DRIVE	
OLUMBIA MD 921211578	
	X 10A. MODIFICATION OF CONTRACT/ORDER NO. HSHQDC-09-D-00062
	HSHQDC-11-J-00063
	10B DATED (SEC ITEM 13)
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	LES TO AMENDMENTS OF SOLICITATIONS
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lee Schedule	
	SORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.
13. THIS FTEM ONLY APPLIES TO MODERCATION OF CONTRACTS/	
	(b) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT
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as follows:

Robert Degnan

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Section entitled "Invoice Procedures" is deleted in its entirety and replaced with the Continued ...

Except as provided therein, all terms and conditions of the document referenced in liem 9A or 10A, as heretofore changed, remeins unchanged and in full force and effect. 15A. NAME AND TITLE OF SIGNER (Type or print) 18A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

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		Robert Degnan	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	ISD HAITED PLATES OF AUTOON	18C. DATE SIGNED
(Signative of person networked to sign)		(b)(6)	8/18/11
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NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

EMINO (A)	SUPPLIES/SERVICES (B)	QUANTITY UNIT (C) (D)	UNIT PRICE (E)	AMOUNT (F)
	following:			
	All Invoices shall be submitted in PDF via email			
	to:			
	NPPDInvoice.Consolidation@dhs.gov		ļ	
	All invoices, mailed or emailed, must be		l.	
	addressed as follows:			
	Burlington Finance Center			
	P.O. Box 1279			
	Williston, VT 05495-1279			
	Attn: NPPD-NCSD-CSI			
	The below constitutes a proper invoice:			
	1. In accordance with the contract clauses, the			
	information required with each proper invoice			
	submission is as follows: An invoice shall			
	include:			
	(i) Name and address of the Contractor;			
	(ii) Invoice date and number;			
	(iii) Contract number, contract line item number	4 4 4	1	
	and, if applicable, the order number; (iv) Description, quantity, unit of measure, unit			
	price and extended price of the items delivered;			
	(v) Shipping number and date of shipment,			
	including the bill of lading number and weight of			
	shipment if shipped on Government bill of lading;			
	(vi) Terms of any discount for prompt payment			
	offered;			
	(vii) Name and address of official to whom			
	payment is to be sent;			
	(viii) Name, title, and phone number of person to notify in event of defective invoice; and		j	
	(ix) Taxpayer Identification Number (TIN), The			
	Contractor shall include its TIN on the invoice			
	only if required elsewhere in this contract.			
	(X) Electronic funds transfer (EFT) banking			
	information. (A) The Contractor shall include EFT			
	banking information on the invoice only if			
	required elsewhere in this contract. (B) If EFT			
	banking information is not required to be on the invoice, in order for the invoice to be a proper		4	
	invoice, the Contractor shall have submitted			
	correct EFT banking information in accordance			
	with the applicable solicitation provision,		1	
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	Registration, or 52.232-34, Payment by Electronic			
	Funds Transfer; Other Continued Than Central			
	Contractor Registration), or applicable agency			
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OPTIONAL FORM 335 (4-86) Sponsored by GSA FAR (40 CFR) 53.110

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NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

r t 2 r a c n 3	procedures. (C) EFT banking information is not required if the Government waived the requirement to pay by EFT. Invoices without the above information may be returned for resubmission. 2. Receiving Officer/COTR: Each Program Office is responsible for acceptance and receipt of goods and/or services. Upon receipt of goods/services,		
15	complete the applicable FFMS reports or BFC will not process the payment. 3. All other terms and conditions remain the same.		
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TENNO.	APPLICATIONS INTERNATIONAL CORPORATION		·		······
(A)	(B)	QUANTITY		UNIT PRICE	AMOUNT
	To: NSEP000000 L0 0405-01-000	(C)	(D)	(E)	(F)
	90-05-0003-00-00-00-00 GEOE 2576 RN0125 Funded:				
	(b)(4)				
	CLIN 0010 - Travel Base Year: From -				
	NSEP000-000L0 04-03-02-00090 05 000300 00 00 00 GEOE 2576 RN0024 Funded: (b)(4)				
	To: NSEP000-00010 04-05-01-00090 05 000300 00 00				
	00 GEOE 2576 RN00125	1		. ·	· ·
	Funded: (b)(4)	[			
	CLIN 0011 - Other Direct Costs (ODC): From				
	-NSEP000000 L0 0403-01-000 90-05-0003-00-00-00 GEOE 2576 RN0024 Funded: (b)(4)				
	To: NSEPCO0-000L0 04-05-01-00090 05 000300 00 00 00 GEOE 2576 RN0125 Funded: (b)(4)				•
	All other terms and conditions remain unchanged.				
	AAP Number: 63422 DO/DPAS Rating: NONE Discount Terms:				
	Net 30				
	Delivery Location Code: PREPESTN Preparedness (Ballston)				
	1110 N. Glebe Rd				
	Arlington VA 22201				
ł	Mark For:				
	Department of Homeland Security				
	Office of Procurement Operations				
1	245 Murray Lane			ļ	
	Bldg. 410				
	Washington DC 20528 FOB: Destination				
	Period of Performance: 02/11/2011 to 02/10/2013				
	Change Item 0004 to read as follows (amount shown				
	is the obligated amount):				
1	Modeling Modeling Base year				
					0.00
	Product/Service Code: R425 Product/Service Description: ENGINEERING 6 TECHNICAL SERVICES				
	Accounting Info:				
	Continued				
540-01-167-80					

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OPTIONAL FORM 336 (4-56) Sponsored by BSA FAR (48 CFR) 53,110 .

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	DF
	REFERENCE NO. OF DOCUMENT BEING CONTINUED HSHQDC-09-D-00062/HSHQDC-11-J+00063/P00005	з	12
NAME OF OFFEROR OR CONTRACT	TOR .		
SCIENCE APPLICATION	S INTERNATIONAL CORFORATION		

(B) 000000 L0 0403-01-000 90-05-0003-00-00-00 2576 RN0D24 ed: (b)(4) unting fints: 000000 L1 0403-01-00090-05-0003-00-00-00 2576 RN1013 ed: \$0.00 unting Info: 000000 L0 0405-01-000 90-05-0003-00-00-00-00 2576 RN0125 ed: (b)(4) ge Item 0010 to read as follows (amount shown he obligated amount): eff - Base Year Total Not To Exceed Cost for line item is (b)(4) enting Info: 000000 L0 0403-01-000 90-05-0003-00-00-00-00 2576 RN0024 d; \$0.00 nting Info: 00-000L0 04-03-02-00090 05 000300 00 00 00 2576 RN024				(E)	(F)	0.0
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	ATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	
P00006	12/21/2011	4. REQUISITION FORCIAGE REQ. NO.	5. PROJECT NO. (If applicable)
6, ISSUED BY CODE	DHS/OPO/NPPAD/CS&	7. ADMINISTERED BY (If other than Item 6)	CODE DHS/OPO/NPPAD/CS&C
U.S. Dept. of Homeland Secur		U.S. Dept. of Homeland §	······································
Office of Procurement Operat		Office of Procurement Of	· · · · · · · · · · · · · · · · · · ·
NPPD Acquisition Division		NPPD Acquisition Divisio	on .
245 Murray Lane, SW	1	245 Murray Lane, SW	· · · ·
Building 410 Washington DC 20528		Building 410 Washington DC 20528	
8. NAME AND ADDRESS OF CONTRACTOR (No., street,	county, State and ZIP Code)	(x) 9A. AMENDMENT OF SOLICITATION NO.	
CIENCE APPLICATIONS INTERNATIONA			
CYBER AND INFORMATION SOLUTIONS (		9B. DATED (SEE ITEM 11)	
841 BENJAMIN DAVIS DRIVE			
OLUMBIA MD 921211578			ER NO.
		* HSHQDC-09-D-00062	
		HSHQDC-11-J-00063	
CODE 0700112020000	FACILITY CODE	10B. DATED (SEE ITEM 13)	
CODE 8782112830000		AMENDMENTS OF SOLICITATIONS	National Control of Co
The above numbered solicitation is amended as set fo			extended, 🗍 is not extended.
Offers must acknowledge receipt of this amendment p	tor to the hour and date specified in th	e solicitation or as amended, by one of the following	g methods; (a) By completing
Items 8 and 15, and returning cop separate letter or telegram which includes a reference		edging receipt of this amendment on each copy of t	
THE PLACE DESIGNATED FOR THE RECEIPT OF C	FFERS PRIOR TO THE HOUR AND I	DATE SPECIFIED MAY RESULT IN REJECTION (	OF YOUR OFFER, If by
<ul> <li>virtue of this amendment you desire to change an offer to the solicitation and this amendment, and is received</li> </ul>			ram or letter makes reference
12. ACCOUNTING AND APPROPRIATION DATA (If requ			
See Schedule	<u></u>		• • • • • • • • • • • • • • • • • • • •
13. THIS ITEM ONLY APPLIES TO M	DDIFICATION OF CONTRACTS/ORDE	RS. IT MODIFIES THE CONTRACT/ORDER NO. A	AS DESCRIBED IN ITEM 14.
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CHECK ONE A THIS CHANGE ORDER IS ISSUED P	URSUANT TO: (Specify authority) TH	E CHANGES SET FORTH IN ITEM 14 ARE MADE	E IN THE CONTRACT
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

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	All other terms and conditions remain unchanged.			
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PR: RNNC-12-00009

The purpose of this modification is to exercise Option Feriod 1 and to extend the period of performance through 2/10/2013.

All other terms and conditions remain unchanged.

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	Contracting officer				
	Contracting Officer Technical Representative (COTR)			•	
	Giang Huynh				
	Email:				
	Teleph (b)(6)				
	Contract Specialist (CS)	1			
	Rashema Collins			1	
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	Robert Degnan				
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	Washington DC 20528				
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1	Change Item 1001 to read as follows (amount shown is the obligated amount)				
	is the obligated amount):				
01	Program Management (CPFF)		ĺ		
	Product/Service Code: R425				
. 1	Product/Service Description: SUPPopr				
1	PROFESSIONAL: ENGINEERING/TECHNICAL	1			
	Accounting Info:		1	-	
[]	NSEP0000-000 MA-53-02-01-002	ĺ	1		
- ( <u>)</u>	0 GEOE 2576 RN2000	1			(b)(4)
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ITEM /	O. SUPPLIES/SEPACES	······································	·/-····			
(A)	(B)	QUANTITY (C)	UNIT (D)	UNIT PRICE	A	MOUNT
1003	Total Line Item Value\$208,401.38 Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP0000-000 MA-53-02-01-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: (b)(4) Change Item 1003 to read as follows(amount shown is the obligated amount): Standard (CPFF) Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP0000-000 MA-53-03-02-002			(E)		(F)
05	90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: (b)(4) Change Item 1004 to read as follows (amount shown is the obligated amount): Modeling (CPFF) Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP0000-000 MA-53-02-01-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded (b)(4) Change Item 1005 to read as follows (amount shown is the obligated amount): Cable Infrastructure (CPFF) Fotal Line Item Valu (b)(4)				·	(b)(4)

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OPTIONAL FORM 335 (4-36) Sponsoled by GSA FAR (48 CFR) 53,110 . ...

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	Product/Service Description: SUPPORT-				-
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	Change Item 1006 to head				
	Change Item 1006 to read as follows (amount shown is the obligated amount):				
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.006	Security and Reliability (CPFF)				
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пем NO. (А)	SUPPLIES/SERVICES (B)	QUANTITY UNIT (C) (D)	UNIT PRICE	AMOUNT
1008	90-05-0003-00-00-00 GEOE 2576 RN2009 Funded (b)(4) Change Item 1008 to read as follows(amount shown is the obligated amount): Labor Fix fee Total Line Item Value (b)(4) Product/Service Code: x425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL		(E)	
	Accounting Info: NSEP0000-000 MA-53-03-01-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: (b)(4) Change Item 1009 to read as follows (amount shown is the obligated amount): Surge Studies (Ad-Hoc) (CPFF) (Optional) Amount (b)(4) (Option Line Item) Total Line Item Valu (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Change Item 1010 to read as follows (amount shown is the obligated amount):			(b)(4)
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Т	DC (COST REIMBURSABLE) otal Line Item Value (b)(4) ontinued			

OPTIONAL FORM 336 (4-86) Sponsored by GSA FAR (48 CFR) 53,110 • •

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NAME OF OFFEROR OR CONTRACTOR SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

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				<b> </b>	
	Unexpended funds in the amount of (b)(4) will be de-obligated from the following CLINS:				
	a. CLIN 0001 Program Management is changed from (b)(4) decrease of				
	b. CLIN 0003 Standard is changed from (b)(4) a decrease of				
	c. CLIN 0006 Security and Belisbility is changed (b)(4) I decrease of				
1	d. CLIN 0007 Demonstrations is changed from (b)(4) decrease of				
1	e. CLIN 00008 Fixed Fee on Labor Rame Year is changed f decrease (b)(4)				
	f. CLIN 00010 Travel is changed from (b)(4) to (b)(4)				
	g. CLIN 00011 ODC is changed from (b)(4) (b)(4)				
	As a result of this modification, the total funded amount of the task order is decreased by (b)(4) The total funded amount of this task order is decreased from (b)(4)				
1	(b)(4)				
r T	AP Number: 63422 DO/DPAS Rating: NONE Discount Terms: Not 30				
P 1	Pelivery Location Code: PREPBSTN Preparedness (Ballston) 110 N. Glebe Rd rlington VA 22201				
c	ontinued				

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#### REFERENCE NO. OF DOCUMENT REING CONTINUED CONTINUATION SHEET RSHQDC-09-D-00062/RSHQDC-11-J-00063/P00008 PAGE 0F 7 3

NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORFORATION

тем NO. {A.)	SUPPLEWSERVICES	QUANTITY		UNIT PRICE	AMOUNT
	(8)	(C)	(D)	(E)	(F)
	Mark For:		f		
	Department of Homeland Security	1			
	Office of Procurement Operations	1	•		
	245 Murray Lane	ł			
	Bldg. 410				
	Washington DC 20528	1		1	
	FOB: Destination	1			
	Period of Daufaurana on the tasts		! !	ſ	
	Period of Performance: 02/11/2011 to 02/10/2013				
	Change Item 0001 to read as follows (amount shown			1	
	is the obligated amount):				
1001	Program Management Base year				
		1 1		Í	
	Total Line Item Value (b)(4)	1 1	ł	•	
	Product/Service Code: R425	1		1	
	Product/Service Description: SUPPORT-	1 1		l l	
	PROFESSIONAL: ENGINEERING/TECHNICAL				
	Accounting Info:			1	
	NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00	1 · 1		1	
1	GEOE 2576 RN0024	i 1		· 1	
	Funded: \$0.00				
		1 1		l l	
	Accounting Info:				
- 1	NSEP000-00010 04-03-02-00090 05 0003 00 00 00 00	}			
I	GEOE 2576 RN0024				
	Funded: \$0.00		1	1	
	Accounting Info:	l f			
i :	NSEP000000 L1 0403-01-00090-05-0003-00-00-00-00	1			
	SEOB 2576 RN1013				
	funded: \$0.00				(b)(4)
		[		1	
	Accounting Info:	1			
	ISE2000000 L1 0403-02-00090-05-0003-00-00-00-00	4			
9	ACUE 25/6 RN1013				
	funded: (b)(4)		f i		
, A	acounting Info:				
8	SEP000000 L1 0403-04-00090-05-0003-00-00-00-00			ł	•
G	EOE 2576 RN1013	ł		1	
	unded: \$0.00	1	1	ŀ	
			ł		
	counting Info:		1		
N	SEP000000 L1 0405-01-00090-05-0003-00-00-00-00	[	1	1	
6	EUE 2576 RN1013		1		
F	unded: \$0.00	ſ	1		
c	hange Item 0003 to read as follows (amount shown			ſ	
1	s the obligated amount):			1	
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NAME OF OPPERIOR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

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<u>a ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( </u>	Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL		12)	. (F)
	Accounting Info: NSEP000000 L0 0403-02-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: \$0.00 Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-02-00090-05-0003-00-00-00-00			
	GEOE 2576 RN1013 Funded: (b)(4) Accounting Info: NSEP000000 L1 0403-03-00090-05-DDD3-0D-00-00-0D GEOE 2576 RN1013 Funded: (b)(4)			
	Change Item 0006 to read as follows(amount shown is the obligated amount):			
1	Security and Reliability			
	Line Item Total includes: Incrementally Funded: (b)(4) outstanding Balance: Total Line Item Valu Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP000000 L1 0405-01-00090-03-0003-00-00-00-00		. ·	(b)(4)
C F	EDE 2576 BN1013 Funded: (b)(4)			
1	s the obligated amount):			
T P	econstrations otal Line Item Value (b)(4) roduct/Service Code: R425			
18	roduct/Service Description: SUPFORT- ROFESSIONAL: ENGINEERING/TECHNICAL ontinued			
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NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO. (A)	Suppl.æs/Bervices (B)	(C)	UNIT (D)	UNIT PRICE ()E)	AMOUNT (F)
	Accounting Info: NSEP000000 L1 0403-01-00090-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: (b)(4) Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Change Item 0008 to read as follows(amount shown				
	is the obligated amount):				
608	Fix fee on Labor Base year			·	(b)(4)
_	(b)(4)				
- • T					
	Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: \$0.00 Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00				
	GEOE 2576 RN0024 Funded: \$0.00 Accounting Info:				
1	VSEP000000 L0 0403-02-000 90-05-0003-00-00-00-00 SECE 2576 RN0024 Funded: \$0.00				
A N G	CCCounting Info: SEP000000 LI 0403-01-00090-05-0003-00-00-00-00 ECE 2576 RN1013				
A N G	Unded: \$0.00 ccounting Info: SEP000000 L1 0403-02-00090-05-0003-00-00-00-00 ECE 2576 RN1013				
Ad Ni Gi Fu	unded: \$0.00 ccounting Info: SEP000000 L1 0403-04-00090-05-0003-00-00-00-00 EOE 2576 RN1013 unded: (b)(4) ccounting Info:				
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OPTIONAL FORM 338 (4-38) Spensored by GBA

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NAME OF OFFENOR OR CONTRACTOR	7	7

NAME OF OFFENOR OR CONTRACTOR

(A)	SUPPLES/BERVICES	QUANITĮ V (C)	(D)	UNITPRICE	AMOUNT
	Change Item 0011 to read as follows (amount shown		[	(E)	(F)
	is the obligated amount):				
0011	ODC - Base Year				
				ļ	(b)(4)
ı	Total ODC Not To Exceed Cost for this line item				· .
	Total Line Item Value (b)(4)				
	Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024				
	Funded: \$0.00 Accounting Info:				
	NSEP000-00010 04-03-02-00090 05 000300 00 00 00 GEOE 2576 RN0024 Funded: \$0.00				
	Accounting Info:				
	NSEP000000 L1 0403-50-00090-05-0003-00-00-00-00 GEOR 2576 RN1013 Funded: \$0.00				
	Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00				
	GEOE 2576 RN1013 Funded: (b)(4)				
1	Accounting Into: NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00				
į.	GEOE 2576 RN1013 Funded: \$0.00				·
- 1	Accounting Info; NSEP000-000L0 04-05-01-00090 05 000300 00 00 00				•
	GEO2 2576 RN0125 Funded: \$0.00				
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NAME OF OFFEROR OR CONTRACTOR SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO.	民间中门送去客道积少的重要	QUANTIT	r LINIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Funded: \$0.00	-	+		
	Accounting Info:				
-	NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00	1		1	
	GEOE 2576 PN1013		1		
	<b>Funded:</b> (b)(4)				
	Accounting Info:			1	
	NSEP000000 L1 0403-01-00090-05-0003-00-00-00-00				
	GEOE 2576 RN1013	1	11		
	Funded: \$0.00				
	Accounting Info:				
	NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00	1	11	1	
	GEOE 2576 RN1013	'		1	
	Funded: \$0.00	· ·			
	Change Item 0010 to read as follows (amount shown			1	
	is the obligated amount):				
010	Travel - Base Year Total Not To Evered Cost for	ļ '			
	this line item is				(b)(4)
	Total Line Iten Va. (b)(4)				
	Accounting Info:			1	
	NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00			1	
	GEOE 2576 RN0024				
	Funded: \$0.00				
	Accounting Info:	1		1	
	NSEP000-000L0 04-03-02-00090 05 000300 00 00 00	1	Í		
	GEOE 2576 RN0024				
	Funded: \$0.00				
	Accounting Info:	ļ	ſ		
	NSEP000000 L1 0403-02-00090-05-0003-00-00-00-00				
1	GEOE 2576 RN1013 Funded: (b)(4)				
	Funded: (b)(4) Accounting Info:			ł I	
	NSEP000000 L1 0403-01-00090-05-0003-00-00-00-00				
	GEOE 2576 PN1013	,		1	
1	Tunded: (b)(4)		Í		
	Accounting Info:	· · ]			
	NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00				
	JEOE 2576 PM1/12	:1			
1	Funded (b)(4)	•			
	accounting Info:		1		
	*SEP000000 L1 0405+01+00090-05-0003-00-00-00-00		1		
	EOE 2576 RN1013				
	funded: (b)(4)		1		
	ecounting Info: ,	1			
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	BEOE 2576 RN00125			l l	
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TTEM NO.	EUPPLIESSERVICES					*******
(A)	· (B)		ITY UNIT	UNIT PRICE	AM	OLINT
·····		(C)	(D)	(E)		(F)
	Change Item 0011 to read as follo	ows (amount shown				
	is the obligated amount):					
0011	ODC - Base Year					
VV+4	Vic - Base lear	l l		1		(b)(4)
	Total ODC Not To Exceed Cost for is (b)(4)	this line item				
	Total Line Item Value (b)(4)					
ĺ	Accounting Info: NSEP000000 L0 0403+01-000 90-05-0		.			•
	GEOE 2576 RN0024	1003-00-00-00-00				
	Funded: \$0.00	· ]				
	Accounting Info:			1		
	NSEP000-000L0 04-03-02-00090 05 0	00300 00 00 00				
.	GEOE 2576 RN0024					
i	Funded: \$0.00	ļ.		1		
	Accounting Info:			1		
	NSEP000000 L1 0403-50-00090-05-00	03-00-00-00-00				
	GEOE 2576 RN1013					
	Funded: \$0.00					
ł	Accounting Info:					
	NSEP000000 L1 0403-04-00090-05-00 GEOE 2516 PN1013	03-00-00-00-00				
[	Funded: (b)(4)					
	Accounting Info:					
	NSEP000000 L1 0405-01-00090-05-000	03-00-00-00-00				
	GEOE 2576 RN1013	03-00-00-00-00				
	Funded: \$0.00					
	Accounting Info:			· ·		
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	GEOE 2576 RN0125					
	Funded: \$0.00					
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MENDMENT OF SOLICITATION/MODIFI	CATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF	PAGES
AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE		UISITION/PURCHASE REQ. NO.		1	6
200009			-12-00075	5. PR	OJECT NO.	(If applicable)
. ISSUED BY CODE	See Block 16C DHS/OPO/NPPAD/CS&		INISTERED BY (If other than Item 6)	CODE		DPO/NPPAD/C
J.S. Dept. of Homeland Secu	·····	_	. Dept. of Homeland Se		01070	JPO/NPPAD/C
Office of Procurement Opera			lce of Procurement Ope			
NPPD Acquisition Division			) Acquisition Division			
245 Murray Lane, SW	,		Murray Lane, SW			
Building 410 Washington DC 20528			Lding 410 Lington DC 20528			
NAME AND ADDRESS OF CONTRACTOR (No., stre	eet, county, State and ZIP Code)		AMENDMENT OF SOLICITATION NO.			
CIENCE APPLICATIONS INTERNATION YBER AND INFORMATION SOLUTIONS		98	DATED (SEE ITEM 11)			
341 BENJAMIN DAVIS DRIVE						
OLUMBIA MD 921211578		100				. =
		X HS	MODIFICATION OF CONTRACT/ORDER	INO.		
•			HQDC-11-J-00063			
		_1	. DATED (SEE ITEM 13)			
ODE 8782112830000	FACILITY CODE	0.	2/10/2011	•		
] The above numbered solicitation is amended as set	11. THIS ITEM ONLY APPLIES TO					
THE PLACE DESIGNATED FOR THE RECEIPT OF			while more relation and the data to be the		-ren, li Dy	ance
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REFERENCE NO. OF DOCUMENT BEING CONTINUED CONTINUATION SHEET PAGE OF 2 6

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Delivery Location Code: DHS Department of Homeland Security 245 Murray Lane Bldg. 410 Washington DC 20528				
	FOB: Destination Period of Performance: 02/11/2011 to 02/10/2013				
	Change Item 1001 to read as follows(amount shown is the obligated amount):				
L001	Program Management (CPFF)				0.
	Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL				
	Accounting Info: NSEP0000-000 MA-53-02-01-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded (b)(4) Accounting Info: NSEP0000-000 MA-53-03-02-002				
	90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: (b)(4) Accounting Info: NSEF0000-000 MA-53-03-01-002 90-05-0003-00-00-00 GEOE 2576 NC2075				
	Funded: (b)(4) Accounting Info: NSEP0000-000 MA-53-03-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded (b)(4)				
	Change Item 1002 to read as follows(amount shown is the obligated amount):				
002	Technical Assessments (CPFF)				0.
	Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL				
	Accounting Info: NSEP0000-000 MA-53-02-01-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: (b)(4) Continued				
7540-01-15	L 2-8067	1			ONAL FORM 336 (4-86)

REFERENCE NO. OF DOCUMENT BEING CONTINUED

CONTINUATION SHEET

PAGE OF 3 6

NAME OF OFFEROR OR CONTRACTOR

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ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Accounting Info: NSEP0000-000 MA-53-03-01-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded (b)(4) Accounting Info: NSEP0000-000 MA-53-03-03-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: (b)(4) Change Item 1004 to read as follows (amount shown is the obligated amount):				
1004	Modeling (CPFF) Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL				0.00
	Accounting Info: NSEP0000-000 MA-53-02-01-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: (b)(4) Accounting Info: NSEP0000-000 MA-53-03-01-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded (b)(4)				
1005	Change Item 1005 to read as follows(amount shown is the obligated amount): Cable Infrastructure (CPFF)				0.01
	Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP0000-000 MA-53-02-01-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: (b)(4) Accounting Info: NSEP0000-000 MA-53-03-02-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: (b)(4) Accounting Info: NSEP0000-000 MA-53-03-03-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Continued				
SN 7540-01-15	2 9067				OPTIONAL FORM 336 (4-86)

HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00009

NAME OF OFFEROR OR CONTRACTOR SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)		AMOUNT
(11)	Funded: (b)(4)		(0)	(E)	(F)
	Change Item 1006 to read as follows(amount shown is the obligated amount):				
1006	Security and Reliability (CPFF)				
1000	becarity and Kerrability (GFFF)				0.00
	Total Line Item Value (b)(4)				
	Product/Service Code: R425				
	Product/Service Description: SUPPORT-				
	PROFESSIONAL: ENGINEERING/TECHNICAL				
	Accounting Info:				
	NSEP0000-000 MA-53-03-02-002 90-05-0 <u>003-00-00-00-0</u> 0 GEOE 2576 RN2009				
	Funded: (b)(4)				
	Accounting Info:				
	NSEP0000-000 MA-53-03-01-002				
	90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: (b)(4)				
	Accounting Info:				
	NSEP0000-000 MA-53-03-03-002				
	90-05-0003-00-00-00-00 GEOE 2576 RN2009 Funded (b)(4)				
	Accounting Info:				
	NSEP0000-000 MA-53-02-01-002				
	90-05-0003-00-00-00-00 GEOE 2576 NC2075 Funded (b)(4)			·	
	Change Item 1007 to read as follows(amount shown				
	is the obligated amount):				
1007	Demonstrations (CPFF)				0.00
	Total Line Item Valu (b)(4)				
	Product/Service Code: R425				
	Product/Service Description: SUPPORT-				
	PROFESSIONAL: ENGINEERING/TECHNICAL				
	Accounting Info:				
	NSEP0000-000 MA-53-03-01-002			1	
	90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: (b)(4)				
	Accounting Info:				
	NSEP0000-000 MA-53-02-01-002				
	90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: (b)(4)				
	Funded: (b)(4) Accounting Info:				
	Continued				
		1			

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00009	5	6
NAME OF OFFEROR OR CONTRACT			

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

(A)	(B)	10	1	()	AMOUNT
		(C)	(D)	(E)	(F)
	ISEP0000-000 MA-53-03-03-002				
	00-05-0003-00-00-00 GEOE 2576 NC2075 Funded: (b)(4)				
Ľ	funded: (b)(4)				
С	Change Item 1008 to read as follows(amount shown				
	s the obligated amount):				
.008 L	abor Fix fee				0.
Т	otal Line Item Value (b)(4)				
	Product/Service Code: R425				
Р	Product/Service Description: SUPPORT-				
	ROFESSIONAL: ENGINEERING/TECHNICAL				
А	accounting Info:				
	ISEP0000-000 MA-53-03-01-002				
	0-05-0003-00-00-00-00 GEOE 2576 RN2009				
	'unded: (b)(4)				
А	accounting Info:				
	ISEP0000-000 MA-53-02-01-002				
	0-05-0003-00-00-00-00 GEOE 2576 NC2075				
	'unded: (b)(4)				
	ccounting Info:				
	SEP0000-000 MA-53-03-02-002				
	0-05-0003-00-00-00 GEOE 2576 NC2075 under (b)(4)				
	CCOUNTING INTO:				
	ISEP0000-000 MA-53-03-03-002				
	0-05-0003-00-00-00-00 GEOE 2576 NC2075				
	'unded: (b)(4)				
	hange Item 1010 to read as follows(amount shown				
i	s the obligated amount):				
010 Т	ravel (COST REIMBURSABLE)				0.0
Т	otal Line Item Value (b)(4)				
A	ccounting Info:				
	SEP0000-000 MA-53-03-01-002				
9	0-05-00 <u>03-00-00-00-0</u> 0 GEOE 2576 RN2009				
	'unded: (b)(4)				
	ccounting Info:				
	SEP0000-000 MA-53-02-01-002				
	0-05-0003-00-00-00 GEOE 2576 NC2075				
	'unded (b)(4) ccounting Info:				
	SEP0000-000 MA-53-03-02-002				
	0-05-0 <u>003-00-00-00-00</u> GEOE 2576 NC2075				
	lunded: (b)(4)				
	ontinued				
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REFERENCE NO. OF DOCUMENT BEING CONTINUED

HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00009

NAME OF OFFEROR OR CONTRACTOR SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	INIT	UNIT PRICE	AMOUNT
(A)	(B)		D)	(E)	(F)
	Accounting Info:		-		
	NSEP0000-000 MA-53-03-03-002		Í		
	90-05-0003-00-00-00-00 GEOE 2576 NC2075				
	Fundec (b)(4)				
	Change Item 1011 to read as follows(amount shown				
	is the obligated amount):				
1011					
	ODC (COST REIMBURSABLE)				0.0
	Total Line Item Value (b)(4)				
	Accounting Info:				
	NSEP0000-000 MA-53-03-01-002				
	90-05-0003-00-00-00 GEOE 2576 RN2009				
	Funded (b)(4) Accounting into:				
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	90-05-0 <u>003-00-00-00</u> -00 GEOE 2576 NC2075				
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Amendment of solicitation/mol	DIFICATION OF CONTRACT		1 CONTRACT ID CODE		PAGE O	F PAGES
AMENDMENTANODIFICATION NO.	S EFFECTIVE DATE	4 RE	QUISITION/PURCHASE REQ NO	6. PS	1 IOJECTNO	(If applicable)
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RCK ONE A. THIS CHANGE DRDER IS ISS	SUED PURSUANT TO: (Specify authority) 1	HE CHAN	IGES SET FORTH IN ITEM 14 ARE MADE	IN THE C	ONTRACT	
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B THE ABOVE NUMBERED CO appropriation data, alc ) SET	NTRACT/ORDER IS MODIFIED TO REFLE FORTH IN ITEM 14, PURSUANT TO THE A	UT THE /	IDMINISTRATIVE CHANGES (such as che I'Y OF FAR 43 103(b)	logos in puj	ring allica,	
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X FAR Clause 52.232 D OTHER (Specify type of modi				····		
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DESCRIPTION OF AMENDMENT/MODIFIC					ال والارتجاع الذراع المحوط المحوط	*********
NS Number: 879211283+0				,		
e purpose of this modif	ication is as follows	t				
Provide additional fur	nds for Contracting Li	ne It	em Numbers (CLINS) 10	03 Sta	indarda	s and
10 Travel.	-					
Raise the ceiling on (	CLINS 1010 Travel and	1011	Other Direct Costs.			
As a result of this mo	dification, the total	obli	gated amount of this	task o	order	
creases }	(b)(4)					
ontinued						
copt as provided herein, all terms and conditio	ns of the document referenced in Rem 8A or	10A, as f	eretolore changed, remains unchanged an	nd in full for	te and effec	ι
A NAME AND TITLE OF SIGNER (7) DO OF P	ini)	16/	A NAME AND TITLE OF CONTRACTING	OFFICER (	Type or pri	11)
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(b)(6)			(b)(6)			7/20/12
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CONTINUATION SHEET	REFERENCE NO OF DOCUMENT BEING CONTINUED HSHQDC-09-D-09062/HSHQDC-11-J-00063/200010	PAQE (	Nr I
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NAME OF OFFEROR OR CONTRACTOR

ПЕМ NQ (А)	SUPPLIES/SERVICES (B)	QUANTITY (C)	(D)	UNIT PRICE (E)	AMOUNT (F)
****	4) As a result of this modification, the total value of this task order increases 1 (b)(4) from (b)(4)	<u> </u>			
	All other terms and conditions remain unchanged. AAP Number: 63422 DO/DPAS Rating: NONE Discount Terms: Net 30				
45474252412.444442.	Delivery Location Code: DHS Department of Homeland Security 245 Murray Lane Bldg. 410 Washington DC 20528			aafaa taasaayo gadda ahaan ahaa ah	denn menne seferner sefer sinder kinder sind Mind Later and en er en e
	FOB: Destination Period of Performance: 02/11/2011 to 02/10/2013				
	Change Item 1003 to read as follows(amount shown is the obligated amount):				
1003	Standard (CPFF)				
	Total Line Item Value\$2,772,351.23 Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Requisition No: RNNC-12-00009, RNNC-12-00036				
	Accounting Info: NSEP0000-000 MA-53-03-02-002 90-05-0003-00-00-00-00 GEOE 2576 RN2003 Funded: \$0.00 Accounting Info: NSEP000 000 MA 53-02-01-002 90-05-003 0000 0000 GEOE 2576 NC2036 Funded (b)(4)				(b)(4)
	Change Item 1010 to read as follows(amount shown is the obligated amount):				
1010	Travel (COST REIMBURSABLE)				
	Total Line Item Valu (b)(4) Requisition No: RNNC-12-00036, RNNC-12-00075				
	Accounting Info: NSEP0000-000 MA-53-03-01-002 90-05-0003-00-00-00-00 GEOE 2576 RN2009 Funded: \$0.00 Continued				

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CONTINUATION SHEET	REFERENCE NO OF DOCUMENT BEING COMINDED RSHQDC~09-D-00062/HSHQDC-11-J-00063/P00010	3	3
NAME OF OFFICE OF CONTRACT			<u> </u>

NAME OF OFFEROR OR CONTRACTOR

ITEM NO (A)	SUPPLIES/BERVICES (B)	QUANTITY (C)	(D)		AMOUNT
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	NSEP0000-000 MA-53-02-01-002				
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	Funded: \$0.00				
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	NSEP000 000 MA 53-02-01-002 90-05-003 0000 0000				
	GEOF 2576 NC2036				
	Funded: (b)(4)				
	Change Item 1011 to read as follows (amount shown				
	is the obligated amount):				
1011					
1011	ODC (COST REIMBURSABLE)		<b> </b>		0.00
	Total Line Item Value (b)(4)				
	Requisition No: RNNC-12~00075				
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	Accounting Info: NSEP0000-000 MA-53-03-01-002				
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	Funded: \$0.00				
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	NSEP0000-000 MA-53-02-01-002				
	90-05-0003-00-00-00-00 GEOE 2576 NC2075				
	Funded: \$0.00				
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•	DIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO.	3, EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	/ 5. PROJECT NO. (If applicable)
P00011	See Block 16C	RNNC-12-00090	
6. ISSUED BY C	DHS/OPO/NPPAD/CS&	7. ADMINISTERED BY (If other than Item 6)	CODE DHS/OPO/NPPAD/CS&C
U.S. Dept. of Homeland Se	curity	U.S. Dept. of Homeland S	ecurity
Office of Procurement Ope		Office of Procurement Op	
NPPD Acquisition Division	1	NPPD Acquisition Divisio	n
245 Murray Lane, SW Building 410		245 Murray Lane, SW Building 410	
Washington DC 20528		Washington DC 20528	
8. NAME AND ADDRESS OF CONTRACTOR (A	, street, county, Stale and ZIP Code)	(X) 9A. AMENDMENT OF SOLICITATION NO.	,
CIENCE APPLICATIONS INTERNAT CYBER AND INFORMATION SOLUTIO 841 BENJAMIN DAVIS DRIVE COLUMBIA MD 921211578		9B. DATED (SEE ITEM 11) X 10A. MODIFICATION OF CONTRACT/ORDI HSHQDC-09-D-00062	ER NO.
		HSHQDC-11-J-00063	
· · · · · · · · · · · · · · · · · · ·		10B. DATED (SEE ITEM 13)	· · · · · · · · · · · · · · · · · · ·
CODE 8782112830000	FACILITY CODE	02/10/2011	
The above numbered solicitation is amended a	· · · · · · · · · · · · · · · · · · ·	O AMENDMENTS OF SOLICITATIONS	extended, is not extended.
THE PLACE DESIGNATED FOR THE RECEIF	– erence to the solicitation and amendment nu T OF OFFERS PRIOR TO THE HOUR ANI an offer already submitted, such change ma	wledging receipt of this amendment on each copy of the umbers. FALURE OF YOUR ACKNOWLEDGEMENT D DATE SPECIFIED MAY RESULT IN REJECTION C by be made by telegram or letter, provided each telegr pecified.	TO BE RECEIVED AT DF YOUR OFFER, If by
12. ACCOUNTING AND APPROPRIATION DATA	(if required) N	et Increase:	(b)(4)
See Schedule		DERS. IT MODIFIES THE CONTRACT/ORDER NO. A	
		THE CHANGES SET FORTH IN ITEM 14 ARE MADE	
X	EMENT IS ENTERED INTO PURSUANT TO		
X	EMENT IS ENTERED INTO PURSUANT TO		
X C. THIS SUPPLEMENTAL AGRE	EMENT IS ENTERED INTO PURSUANT To	o authority of:	······································
X C. THIS SUPPLEMENTAL AGRE D. OTHER (Specify type of modil E. IMPORTANT: Contractor	EMENT IS ENTERED INTO PURSUANT To ication and authority) not. I is required to sign this document	o authority of:	suing office,
X         C. THIS SUPPLEMENTAL AGRE         D. OTHER (Specify type of modif.         E. IMPORTANT:       Contractor         14. DESCRIPTION OF AMENDMENT/MODIFICA         DUNS       Number:         878211283+0	EMENT IS ENTERED INTO PURSUANT To cation and authority) not. Is required to sign this document TION (Organized by UCF section headings 000	O AUTHORITY OF:	suing office,
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X       C. THIS SUPPLEMENTAL AGRE         D. OTHER (Specify type of modify         E. IMPORTANT:       Contractor         14. DESCRIPTION OF AMENDMENT/MODIFIC/         DUNS Number:       878211283+0         The purpose of this modif         1)       Incrementally fund Cont         1007,       1008,       1010 and 1011         2)       Increase the total ob1         (b)(4)         All other terms and condit         AAP Number:       63422 DO/DPAS         Continued          Except as provided herein, all terms and condition	EMENT IS ENTERED INTO PURSUANT To cation and authority) not. Is required to sign this document TION (Organized by UCF section headings 000 ication is to: tracting Line Item Nur igated amount of this tions remain unchanged Rating: NONE as of the document referenced in Item 9A or	O AUTHORITY OF: end retum1 copies to the is including solicitation/contract subject matter where r mbers (CLINS)1002, 1003, 10 task order by (b)(4) d. 10A, as heretofore changed, remains unchanged and 16A, NAME AND TITLE OF CONTRACTING of Robert Degnan	suing office. feasible.) 204, 1005, 1006, 2004, 1005, 1006, 2004
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X C. THIS SUPPLEMENTAL AGRE D. OTHER (Specify type of modif E. IMPORTANT: Contractor IIIs 14. DESCRIPTION OF AMENDMENT/MODIFIC/ DUNS Number: 878211283+0 The purpose of this modif 1) Incrementally fund Com 1007, 1008, 1010 and 1011 2) Increase the total ob1 (b)(4) All other terms and condita AAP Number: 63422 DO/DPAS Continued Except as provided herein, all terms and condition 15A NAME AND TITLE OF SIGNER (Type or pri 16B. CONTRACTOR/OFFEROR (Signature of person suffrontized to sign)	EMENT IS ENTERED INTO PURSUANT To cation and authority) not. Is required to sign this document TION (Organized by UCF section headings 000 ication is to: tracting Line Item Nur igated amount of this tions remain unchanged Rating: NONE res of the document referenced in Item 9A or nf)	O AUTHORITY OF:         end retum       1       copies to the is         including solicitation/contract subject matter where it         mbers (CLINS) 1002, 1003, 10         task order by       (b)(4)         d.         10A, as heretofore changed, remains unchanged and         16A, NAME AND TITLE OF CONTRACTING OF         Robert Degnan	Second s

	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF	7
CONTINUATION SHEET	HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00011	2	7	
NAME OF OFFEROR OR CONTRACT				

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
.002	(B) Discount Terms: Net 30 Delivery Location Code: DHS Department of Homeland Security 245 Murray Lane Bldg. 410 Washington DC 20528 FOB: Destination Period of Performance: 02/11/2011 to 02/10/2013 Change Item 1002 to read as follows (amount shown is the obligated amount): Technical Assessments (CPFF) Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP0000-000 MA-53-02-01-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-03-01-002	(C)			
	90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-03-03-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-01-01-002 90-05-0003-00-00-00 GEOE 2576 NC2090 Funded: (b)(4) Change Item 1003 to read as follows (amount shown is the obligated amount):				(b)(4)
003	Standard (CPFF) Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL				
N 7540-01-152	Continued				OPTIONAL FORM 336 (4-66)

## REFERENCE NO. OF DOCUMENT BEING CONTINUED

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OF 7

PAGE

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NAME OF OFFEROR OR CONTRACTOR SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE	AMOUNT
(11)	Accounting Info:			(巴)	(F)
	NSEP0000-000 MA-53-03-02-002				
	90-05-0003-00-00-00-00 GEOE 2576 RN2009				
	Funded: \$0.00				
	Accounting Info:				
	NSEP000 000 MA 53-02-01-002 90-05-003 0000 0000				
	GEOE 2576 NC2036				
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-01-01-002				
	90-05-0003-00-00-00 GEOE 2576 NC2090				
	Funded: (b)(4)				
	Change Item 1004 to read as follows(amount shown				
	is the obligated amount):				
004	Modeling				
	(CPFF)				
	Total Line Item Valu (b)(4)				
	Product/Service Code: R425				
	Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL	1			
		1			
	Accounting Info:				
	NSEP0000-000 MA-53-02-01-002				
	90-05-0003-00-00-00 GEOE 2576 RN2009				
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-03-01-002 90-05-0003-00-00-00-00 GEOE 2576 NC2075				(b)(4)
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-01-01-002				
	90-05-0003-00-00-00-00 GEOE 2576 NC2090				
	Funded				
	(b)(4)				
	Change Item 1005 to read as follows(amount shown				
	is the obligated amount):				
.005	Cable Infrastructure (CPFF)				
		:			
	Total Line Item Value (b)(4)				
	Product/Service Code: R425				
	Product/Service Description: SUPPORT-				
	PROFESSIONAL: ENGINEERING/TECHNICAL				
	Accounting Info:				
	NSEP0000-000 MA-53-02-01-002				
	90-05-0003-00-00-00-00 GEOE 2576 RN2009				
	Continued				
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PAGE OF

NAME OF OFFEROR OR CONTRACTOR SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

TEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
(11)	Funded: \$0.00	(0)			(1)
	Accounting Info:				
	NSEP0000-000 MA-53-03-02-002				
	90-05-0003-00-00-00-00 GEOE 2576 RN2009				
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-03-03-002				
	90-05-0003-00-00-00 GEOE 2576 NC2075				
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-01-01-002				
	90-05-0003-00-00-00 GEOE 2576 NC2090				
	Funded (b)(4)				
	Change Item 1006 to read as follows (amount shown				
	is the obligated amount):				
006	Security and Reliability (CPFF)				
	Total Line Item Value (b)(4)				
	Product/Service Code: R425				
	Product/Service Description: SUPPORT-				
	PROFESSIONAL: ENGINEERING/TECHNICAL				
	Accounting Info:				
	NSEP0000-000 MA-53-03-02-002				
	90-05-0003-00-00-00-00 GEOE 2576 RN2009				
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-03-01-002				
	90-05-0003-00-00-00-00 GEOE 2576 RN2009				
	Funded: \$0.00				
	Accounting Info:				(b)(4)
	NSEP0000-000 MA-53-03-03-002				
	90-05-0003-00-00-00 GEOE 2576 RN2009				
	Funded: \$0.00				
	Accounting Info: NSEP0000-000 MA-53-02-01-002				
	90-05-0003-00-00-00-00 GEOE 2576 NC2075				
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-01-01-002				
	90-05-0003-00-00-00 GEOE 2576 NC2090				
	Funded (b)(4)				
	Change Item 1007 to read as follows(amount shown				
	is the obligated amount):				
007	Demonstrations (CPFF)				
	Continued				
		1	1		

CONTINUATION SHEET         HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00011         5		REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE (	DF
	CONTINUATION SHEET	HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00011	5	.7
NAME OF OFFEROR OR CONTRACTOR	NAME OF OFFEROR OR CONTRACTO	OR		•

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Total Line Item Valu (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP0000-000 MA-53-03-01-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-02-01-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-03-03-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-01-01-002 90-05-0003-00-00-00 GEOE 2576 NC2090 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-01-01-002 90-05-0003-00-00-00 GEOE 2576 NC2090 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-01-01-002 90-05-0003-00-00-00 GEOE 2576 NC2090 Funded: \$0.00 Change Item 1008 to read as follows (amount shown				
1008	<pre>is the obligated amount): Labor Fix fee Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP0000-000 MA-53-03-01-002 90-05-0003-00-00-00 GEOE 2576 RN2009 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-02-01-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-03-02-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-03-02 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: \$0.00 Accounting Info: NSEP0000-000 MA-53-03-03-002 90-05-0003-00-00-00 GEOE 2576 NC2075 Funded: \$0.00 Continued</pre>				100,004.6

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NAME OF OFFEROR OR CONTRACTOR SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Accounting Info:				
	NSEP0000-000 MA-53-01-01-002				
	90-05-0003-00-00-00 GEOE 2576 NC2090 Funded:				
	Funded: (b)(4)				
	Change Item 1010 to read as follows (amount shown				
	is the obligated amount):				
010	Travel (COST REIMBURSABLE)				
	Total Line Item Valu (b)(4)				
	Accounting Info:				
	NSEP0000-000 MA-53-03-01-002				
	90-05-0003-00-00-00 GEOE 2576 RN2009		1		
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-02-01-002				
	90-05-0003-00-00-00 GEOE 2576 NC2075				
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-03-02-002				
	90-05-0003-00-00-00 GEOE 2576 NC2075				
	Funded: \$0.00				
	Accounting Info: NSEP0000-000 MA-53-03-03-002				(b)(4)
	90-05-0003-00-00-00-00 GEOE 2576 NC2075				
	Funded: \$0.00				
	Accounting Info:				
	NSEP000 000 MA 53-02-01-002 90-05-003 0000 0000				
	GEOE 2576 NC2036				
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-01-01-002		1 1		
	90-05-0003-00-00-00-00 GEOE 2576 NC2090				
	Funded: (b)(4)				
	Change Item 1011 to read as follows(amount shown				
	is the obligated amount):				
011	ODC (COST REIMBURSABLE)				
	Total Line Item Value (b)(4)				
	Decounting Info.				
	Accounting Info: NSEP0000-000 MA-53-03-01-002				
	90-05-0003-00-00-00-00 GEOE 2576 RN2009				
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-02-01-002				
	90-05-0003-00-00-00-00 GEOE 2576 NC2075	1			
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OF 7

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NAME OF OFFEROR OR CONTRACTOR SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (王)	AMOUNT (F)
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-03-02-002 90-05-0003-00-00-00 GEOE 2576 NC2075				
	Funded: \$0.00				
	Accounting Info:				
	NSEP0000-000 MA-53-03-03-002				
	90-05-0003-00-00-00 GEOE 2576 NC2075				
	Funded: \$0.00				
	Accounting Info: NSEP0000-000 MA-53-01-01-002				
	90-05-0003-00-00-00-00 GEOE 2576 NC2090				
	Funded (b)(4)				
					•
		1			
7540-01-152	8067			I	PTIONAL FORM 336 (4-86)

2. AMENDMEN	NT/MODIFICATION NO,	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT	NO. (If applicable)
P00012		See Block 16C	RNCC-13-50005		
3, ISSUED BY	CODI	DHS/OPO/NPPAD/CS&	7. ADMINISTERED BY (If other than Item 6)	CODE, DH	S/OPO/NPPAD/CS&C
	pt. of Homeland Secu		U.S, Dept, of Homeland S	ecurity	
	of Procurement Opera	tions	Office of Procurement Op		
	quisition Division ray Lane, SW		NPPD Acquisition Divisio	n	
Building		•	245 Murray Lane, SW Building 410		
Washing	ton DC 20528		Washington DC 20528	· .	
3. NAME AND	ADDRESS OF CONTRACTOR (No., str	eel, county, Stelo and ZII <sup>2</sup> Code)	(X) 9A. AMENDMENT OF SOLICITATION NO.		······
CIENCE A	PPLICATIONS INTERNATION				
	D INFORMATION SOLUTIONS		9B. DATED (SEE ITEM 11)		1
841 BENJA	AMIN DAVIS DRIVE				
OLUMBIA	MD 921211578		10A, MODIFICATION OF CONTRACT/ORDE	ER NO.	·····
			x 10A. MODIFICATION OF CONTRACT/ORDE HSHQDC-09-D-00062		
			HSHQDC-11-J-00063		
CODE 07	· · · · · · · · · · · · · · · · · · ·	FACILITY CODE	10B. DATED (SEE ITEM 13)		
87	82112830000		02/10/2011		
TiThe ebove s	numbered collectation is smanded as and		O AMENDMENTS OF SOLICITATIONS		
Offere must	ecknowledge receipt of this emendmen	forth in Item 14. The hour and date spe t prior to the hour and date specified in th	cified for receipt of Offers is in a solicitation or as amended, by one of the following	extended, ⊡le r imelhoda: (a) By o	not extended. ompleting
ltems 8 and	15, and returning o	coples of the amendment; (b) By acknow	ledging receipt of this amondment on each copy of it	e offer submitted:	or (c) By
THE PLACE	E DESIGNATED FOR THE RECEIPT O	F OFFERS PRIOR TO THE HOUR AND	mbers. FAILURE OF YOUR ACKNOWLEDGEMENT DATE SPECIFIED MAY RESULT IN REJECTION O	E YOUR OFFER	lf by
virtue of this	$lpha$ amandment you desire to change an $\sigma$	ffer already submitted, such change may	/ be made by telegram or letter, provided each telegra	am or letter makes	reference
	lation and this amondment, and is received in the second s	ed prior to the opening hour and date ap	ecked,	•	
See Sch	-	oquirouy			
	41 THIS ITEM ONLY ADDLIES TO	MODIFICATION OF CONTRACTS/ORDI	ER6. IT MODIFIES THE CONTRACT/ORDER NO. A	S DESCRIBED IN I	TEM 14,
	IS THIS THEN ONLY APPLIES TO				
CHECK ONE				IN THE CONTRA	 CT
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN (TEM 10A.	D PURSUANT TO: (Specify authority) TI	HE CHANGES SET FORTH IN ITEM 14 ARE MADE		
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN (TEM 10A.	D PURSUANT TO: (Specify authority) TI			
	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN (TEM 10A. B. THE ABOVE NUMBERED CONTR appropriation date, etc.) SET FOR	D PURSUANT TO: (Specify authority) TI	HE CHANGES SET FORTH IN ITEM 14 ARE MADE OT THE ADMINISTRATIVE CHANGES (such as char UTHORITY OF FAR 43.109(b).		
	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN (TEM 10A. B. THE ABOVE NUMBERED CONTR appropriation date, etc.) SET FOR	D PURSUANT TO: (Specify authority) TI ACT/ORDER IS MODIFIED TO REFLEC TH IN ITEM 14, PURSUANT TO THE AI	HE CHANGES SET FORTH IN ITEM 14 ARE MADE OT THE ADMINISTRATIVE CHANGES (such as char UTHORITY OF FAR 43.109(b).		
	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN (TEM 10A. B. THE ABOVE NUMBERED CONTR appropriation date, etc.) SET FOR	D PURSUANT TO: (Specify Buthority) TH ACT/ORDER IS MODIFIED TO REFLEC TH IN ITEM 14, PURSUANT TO THE AI ENT IS ENTERED INTO PURSUANT TO	HE CHANGES SET FORTH IN ITEM 14 ARE MADE OT THE ADMINISTRATIVE CHANGES (such as char UTHORITY OF FAR 43.109(b).		
	<ul> <li>A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.</li> <li>B. THE ABOVE NUMBERED CONTR appropriation date, sto.) SET FOR</li> <li>C. THIS SUPPLEMENTAL AGREEME</li> </ul>	D PURSUANT TO: (Specify Buthority) TH ACT/ORDER IS MODIFIED TO REFLEC TH IN ITEM 14, PURSUANT TO THE AI ENT IS ENTERED INTO PURSUANT TO	HE CHANGES SET FORTH IN ITEM 14 ARE MADE OT THE ADMINISTRATIVE CHANGES (such as char UTHORITY OF FAR 43.109(b).		
X E, IMPORTAN	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTR appropriation date, etc.) SET FOR C. THIS SUPPLEMENTAL AGREEME D. OTHER (Specify type of modification T: Contractor ID is not,	D PURSUANT TO: (Specify authority) TI ACT/ORDER IS MODIFIED TO REFLEC TH IN ITEM 14, PURSUANT TO THE AI ENT IS ENTERED INTO PURSUANT TO on and authority)	HE CHANGES SET FORTH IN ITEM 14 ARE MADE 2T THE ADMINISTRATIVE CHANGES (such as char UTHORITY OF FAR 43.103(b). 2 AUTHORITY OF: and return copies to the is	ngos in paying offic	
X E. IMPORTAN 14. DESCRIP	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTR appropriation date, etc.) SET FOR C. THIS SUPPLEMENTAL AGREEME D. OTHER (Specify type of modification T: Contractor Is is not, TION OF AMENDMENT/MODIFICATIO	D PURSUANT TO: (Specify authority) TI ACT/ORDER IS MODIFIED TO REFLEC TH IN ITEM 14, PURSUANT TO THE AU ENT IS ENTERED INTO PURSUANT TO on and authority) Is required to sign this document of N (Organized by UCF section headings,	HE CHANGES SET FORTH IN ITEM 14 ARE MADE OT THE ADMINISTRATIVE CHANGES (such as char UTHORITY OF FAR 43.103(b).	ngos in paying offic	
X E. IMPORTAN 14. DESCRIP DÜN S Num	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTR appropriation date, etc.) SET FOR C. THIS SUPPLEMENTAL AGREEME D. OTHER (Specify type of modification IT: Contractor Elis not, TION OF AMENDMENT/MODIFICATION mber: 878211283+000	D PURSUANT TO: (Specify authority) TI ACT/ORDER IS MODIFIED TO REFLEC TH IN ITEM 14, PURSUANT TO THE AU INT IS ENTERED INTO PURSUANT TO on and authority) [] Is required to sign this document of N (Organized by UCF section headings, 0	HE CHANGES SET FORTH IN ITEM 14 ARE MADE 2T THE ADMINISTRATIVE CHANGES (such as char UTHORITY OF FAR 43.103(b). 2 AUTHORITY OF: and return copies to the is	ngos in paying offic	
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X E.IMPORTAN 14. DESCRIP DUNS Num AAP Numh The purp Drder fr Contact	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTR appropriation date, etc.) SET FOR C. THIS SUPPLEMENTAL AGREEME D. OTHER (Specify type of modification TT: Contractor Element, TON OF AMENDMENT/MODIFICATION mber: 878211283+000 ber: 63422 DO/DPAS R pose of this modific rom CLIN 0011 to CLI (POC) for the Contr	D PURSUANT TO: (Specify authority) TH ACT/ORDER IS MODIFIED TO REFLEC TH IN ITEM 14, PURSUANT TO THE AU ENT IS ENTERED INTO PURSUANT TO an and authority) [] Is required to sign this document in N (Organized by UCF section headings, 0 atting: NONE attion is to realign NS 0001, 0002, 0005, acting Officer's Rep	HE CHANGES SET FORTH IN ITEM 14 ARE MADE T THE ADMINISTRATIVE CHANGES (such as cher UTHORITY OF FAR 43.103(b). D AUTHORITY OF: and return copies to the is including solicitation/contract subject matter where i funding within the base ye	ngos in paying offic suing office. easible.) ear of thi late the p	a Task points of
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X E.IMPORTAN 14. DESCRIP DUNS Num AAP Numh The purp Order fi contact and Cont 1. The ( Huynh: 1 2. The ( Continue Except as pro 16A. NAME A 15B. CONTRA	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTR appropriation date, etc.) SET FOR C. THIS SUPPLEMENTAL AGREEME D. OTHER (Specify type of modification TT: Contractor Element, and the contract TION OF AMENDMENT/MODIFICATION mber: 878211283+000 ber: 63422 DO/DPAS R pose of this modific rom CLIN 0011 to CLI (POC) for the Contracting Officer Tract Specialist as Contracting Officer Telephone: Contracting Officer ed, wided herein, all terms and conditions of ND TITLE OF SIGNER (Type or print) ACTOR/OFFEROR (Signature of person authorized to sign) -162-8070	D PURSUANT TO: (Specify authority) TH ACT/ORDER IS MODIFIED TO REFLEC TH IN ITEM 14, PURSUANT TO THE AU ENT IS ENTERED INTO PURSUANT TO an and authority) D Is required to sign this document of N (Organized by UCF section headings, 0 atting: NONE attion is to realign NS 0001, 0002, 0005, acting Officer's Rep follows: Representative POC i (b)(6) POC is hereby update	HE CHANGES SET FORTH IN ITEM 14 ARE MADE TTHE ADMINISTRATIVE CHANGES (such as cher DTHORITY OF FAR 43.103(b). DAUTHORITY OF: and return copies to the is including solicitation/contract subject matter where i funding within the base ye 0007, and 0010 and to upd presentative (COR), Contract is hereby updated from Lynr of from Robert Degnan to Pa 10A, as heretofore changed, remains unchanged and 16A. NAME AND TITLE OF CONTRACTING O Keturah Stroy	ngos in paying offic suing office. easible.) ear of thi late the p sting Office is Ray to stricta Ol in full force and a DFFICER (Type or	239, a.s. Task points of .cer (CO) Giang .iver. ffect. pdni) 16C. DATE SIGNED $I_{a}/4/_{a0/a}$ DRM 30 (REV. 10-63) DSA

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REFERENCE NO. OF DOCUMENT BEING CONTINUED

CONTINUATION SHEET REFERENCE NO. OF DOCUMENT DEFINITION SHEET HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00012

NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (王)	AMOUNT (F)
	Telephone: (202) 447-5648; email:				
	Patricia.Oliver@hq.dhs.gov				
	3. The Contract Specialist POC is hereby updated				
	from Andrea Evans to Thomas Zaboski. Telephone:		ł		
	(202) 447-5709; email: Tom.Zaboski@hq.dhs.gov			-	
	4 Funding is hereby reallocated in the amount of (b)(4) rom CLIN 0011 and distributed to				
	CLINS 0001, 0002, 0005, 0007, and 0010 in the				
	amounts shown and as per the Lines of Accounting				
	(LOA) listed below:				
	Discount Terms:			:	
	Net 30				
	Delivery Location Code: PREPBSTN Preparedness (Ballston)				
	1110 N. Glebe Rd				
	Arlington VA 22201				
			•		
	Mark For:				
•	Department of Homeland Security Office of Procurement Operations				
	245 Murray Lane				
	Bldg, 410				
	Washington DC 20528			•	
	FOB: Destination				
	Period of Performance: 02/11/2011 to 02/10/2013				
	Change Item 0001 to read as follows(amount shown				
	is the obligated amount):				
001	Program Management Base year				(b)(4)
	Product/Service Code: R425				
	Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL		{		
	THOT DESIGNATION THROW THE THOUSE THE THROW THROW THROW THE THROW THRO				
	Accounting Info:				
	NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00				
	GEOE 2576 RN0024				
	Funded: \$0.00 Accounting Info:				
	NSEP000-000L0 04-03-02-00090 05 0003 00 00 00 00				
	GEOE 2576 RN0024				
	Funded: \$0.00				
	Accounting Info:				
	NSEP000000 L1 0403-01-00090-05-0003-00-00-00-00 GEOE 2576 RN1013				
	Funded: \$0.00				
	Continued				
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NSN 7640-01-152-8067

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OF

6

REFERENCE NO, OF DOCUMENT BEING CONTINUED

HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00012

NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION '

(A)         (B)         (C)         (D)         (E)         (F)           Accounting Info:         Accounti
NSEP000000 L1 0403-02-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0403-04-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: (b)(4         Change Item 0002 to read as follows (amount shown is the obligated amount):         002         Technical Assessments, Analyses, Studies, White         Papers and Reports.         Product/Service Code: R425         Product/Service Description: SUPPORT-         PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded
GEOB 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0403-04-00090-05-0003-00-00-000         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00-00         GEOE 2576 RN 1013         Funded (b)(4)         Change Item 0002 to read as follows (amount shown is the obligated amount):         002         Technical Assessments, Analyses, Studies, White         Papers and Reports.         Product/Service Description: SUPPORT-         PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:
Accounting Info:         NSEP00000 L1 0403-04-00090-05-0003-00-00-00         GE02 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00         GE0E 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00         GE0E 2576 RN 1013         Funded         NSEP00000 L1 0405-01-00090-05-0003-00-00-00         GE0E 2576 RN 1013         Funded         (b)(4)         Change Item 0002 to read as follows (amount shown is the obligated amount):         002         Technical Assessments, Analyses, Studies, White Papers and Reports.         Product/Service Code: R425         Froduct/Service Description: SUPPORT-         PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00         GE0Z 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00         GE0Z 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00         GE0Z 2576 RN1013         Funded: \$0.00
NSEF000000 L1 0403-04-00090-05-0003-00-00-00         GEOR 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEF000000 L1 0405-01-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00         GEOE 2576 RN 1013         Funded         Number 1         Change Item 0002 to read as follows (amount shown is the obligated amount):         002         Technical Assessments, Analyses, Studies, White Papers and Reports.         Product/Service Description: SUPPORT-PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00         GEOE 2576 RN1013         Product/Service Description: SUPPORT-PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:
GEOR 2576 NN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00         GEOR 2576 NN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00         GEOE 2576 RN 1013         Funded       (b)(4)         Change Item 0002 to read as follows (amount shown is the obligated amount):         002       Technical Assessments, Analyses, Studies, White Papers and Reports.         Product/Service Code: R425         Product/Service Description: SUPPORT-         PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-01-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:
Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0405-01-00090-05-0003-00-00-00         GEOE 2576 RN 1013         Funded       (b)(4)         Change Item 0002 to read as follows (amount shown is the obligated amount):         002       Technical Assessments, Analyses, Studies, White         Papers and Reports.         Product/Service Code: R425         Product/Service Description: SUPPORT-         PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00         RECE 2576 RN1013         Funded: \$0.00         Accounting Info:
Accounting Info: NEEP00000 L1 0405-01-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NEEP00000 L1 0405-01-00090-05-0003-00-00-00 GEOE 2576 RN 1013 Funded (b)(4) Change Item 0002 to read as follows (amount shown is the obligated amount): Technical Assessments, Analyses, Studies, White Papers and Reports. Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NEEP00000 L1 0403-01-000-90-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NEEP00000 L1 0403-04-00090-05-0003-00-00-00 (b)( MEEP00000 L1 0403-04-00090-05-0003-00-00-00 (b)( MEEP00000 L1 0403-04-00090-05-0003-00-00-00 (c)(b)( MEEP00000 L1 0403-04-00090-05-0003-00-00-00 (c)(b)( MEEP00000 L1 0403-04-00090-05-0003-00-00-00 (c)(b)( MEEP00000 L1 0403-04-00090-05-0003-00-00-00 (c)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)
NSEP00000 L1 0405-01-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0405-01-00090-05-0003-00-00-00         GEOE 2576 RN 1013         Funded       (b)(4)         Change Item 0002 to read as follows (amount shown is the obligated amount):         0002       Technical Assessments, Analyses, Studies, White Papers and Reports.         Product/Service Code: R425         Product/Service Description: SUPPORT-         PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP00000 L1 0403-01-000-90-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0403-04-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP00000 L1 0403-04-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:
GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0405-01-00090-05-0003-00-00-00 GEOE 2576 RN 1013 Funded (b)(4) Change Item 0002 to read as follows (amount shown is the obligated amount): D002 Technical Assessments, Analyses, Studies, White Papers and Reports. Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP00000 L1 0403-04-00090-05-0003-00-00-00 (b)( MSEP00000 L1 0403-04-00090-05-0003-00-00-00 (b)( CBOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP00000 L1 0403-04-00090-05-0003-00-00-00 (b)( CBOE 2576 RN1013 Funded: \$0.00 Accounting Info:
Funded: \$0.00         Accounting Info:         NSEP000000 L1 0405-01-00090-05-0003-00-00-00         GEOE 2576 RN 1013         Funded (b)(4)         Change Item 0002 to read as follows (amount shown is the obligated amount):         D002         Technical Assessments, Analyses, Studies, White Papers and Reports.         Product/Service Code: R425         Product/Service Description: SUPPORT-         FROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:
Accounting Info: NSEP000000 L1 0405-01-00090-05-0003-00-00-00 GEOE 2576 RN 1013 Funded (b)(4) Change Item 0002 to read as follows (amount shown is the obligated amount): D002 Technical Assessments, Analyses, Studies, White Papers and Reports. Product/Service Code: R425 Product/Service Description: SUPPORT- FROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 (b)( (b)(
NSEP000000 L1 0405-01-00090-05-0003-00-00-00 GEOE 2576 RN 1013 Funded (b)(4) Change Item 0002 to read as follows (amount shown is the obligated amount): D002 Technical Assessments, Analyses, Studies, White Papers and Reports. Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP00000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP00000 L1 0403-04-00090-05-0003-00-00-00 (b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(
GEOE 2576 RN 1013 Funded (b)(4) Change Item 0002 to read as follows (amount shown is the obligated amount): 0002 Technical Assessments, Analyses, Studies, White Papers and Reports. Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 (b)( MSEP000000 L1 0403-04-00090-05-0003-00-00-00 (b)( DEOE 2576 RN1013 Funded: \$0.00 Accounting Info:
Change Item 0002 to read as follows (amount shown is the obligated amount): 0002 Technical Assessments, Analyses, Studies, White Papers and Reports. Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP00000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info:
<pre>is the obligated amount): Technical Assessments, Analyses, Studies, White Papers and Reports. Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info:</pre>
<pre>is the obligated amount): Technical Assessments, Analyses, Studies, White Papers and Reports. Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info:</pre>
0002       Technical Assessments, Analyses, Studies, White         Papers and Reports.         Product/Service Code:       R425         Product/Service Description:       SUPPORT-         PROFESSIONAL:       ENGINEERING/TECHNICAL         Accounting Info:       NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00         GEOE 2576 RN1013       Funded: \$0.00         Accounting Info:       NSEP00000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013       Funded: \$0.00         Accounting Info:       (b)(         Accounting Info:       (b)(
Papers and Reports. Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: (b)(
Papers and Reports. Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: (b)(
Product/Service Code: R425         Product/Service Description: SUPPORT-         PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP000000 L1 0403-01-000-90-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:
Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info: NSEP00000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:
PROFESSIONAL: ENGINEERING/TECHNICAL         Accounting Info:         NSEP000000 L1 0403-01-000-90-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00         GEOE 2576 RN1013         Funded: \$0.00         Accounting Info:
Accounting Info: NSEP000000 L1 0403-01-000-90-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: (b)(
NSEP000000 L1 0403-01-000-90-05-0003-00-00-00       GEOE 2576 RN1013         Funded: \$0.00       Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00       GEOE 2576 RN1013         Funded: \$0.00       Funded: \$0.00         Accounting Info:       (b)(
NSEP000000 L1 0403-01-000-90-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info:
GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: (b)(
Funded: \$0.00       Accounting Info:         NSEP000000 L1 0403-04-00090-05-0003-00-00-00       (b)(         GEOE 2576 RN1013       (b)(         Funded: \$0.00       Accounting Info:
NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info:
GEOE 2576 RN1013 Funded: \$0.00 Accounting Info:
Funded: \$0.00 (b)( Accounting Info:
Accounting Info:
NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00 GEOE 2576 RN1013
Funded: \$0.00
Accounting Info:
• NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00
GEOE 2576 RN 1013
Funded: (b)(4)
Change Item 0005 to read as follows (amount shown
is the obligated amount):
0005 Cable Infrastructure Base Year
Line Item Total includes:
Continued
17540-01-152-8067 OPTIONAL FORM 338 (4-86)

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REFERENCE NO. OF DOCUMENT BEING CONTINUED

HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00012

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIE8/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)		(E)	(F)
	Incrementally Funded: (b)(4) utstanding		h		
	Balance: (b)(4)		·	•	
	Product/Service Code: R425				
	Product/Service Description: SUPPORT-				
	PROFESSIONAL: ENGINEERING/TECHNICAL				
	Accounting Info:				
	NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00				
	GEOE 2576 RN1013				
	Funded: \$0.00				
	Accounting Info:				
	NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00				
	GEOE 2576 RN 1013				
	Funded: \$0.00	1			
	Accounting Info: NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00	1			
	GEOE 2576 RN 1013	1		-	
	Tundod				
	(b)(4)				
	Change Item 0007 to read as follows(amount shown				
	is the obligated amount):				
0007	Demonstrations				
		1			(b)(4)
	Product/Service Code: R425		ľ.		
	Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL				
	FROFESSIONAL: ENGINEERING/TECHNICAL				
	Accounting Info:				
	NSEP000000 L1 0403-01-00090-05-0003-00-00-00-00				
	GEOE 2576 RN1013				
	Funded: \$0.00				
	Accounting Info:				
	NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00				
	GEOE 2576 RN1013				
	Funded: \$0,00				
	Accounting Info:				
	NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00				
	GEOE 2576 RN1013 Funded: \$0.00				
	Accounting Info:				
	NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00				
	GEOE 2576 RN 1013				
	Funded (b)(4)			:	
	Change Item 0010 to read as follows (amount shown	1			
	is the obligated amount):			1	
		1			
	Continued				
		1			

OPTIONAL FORM 336 (4-86) Sponsored by GSA FAR (48 CFR) 53.110

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REFERENCE NO. OF DOCUMENT BEING CONTINUED

ET HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00012

NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO. (A)	SUPPLIES/8ERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
010	Travel - Base Year Total Not To Exceed Cost for				
	this line item i (b)(4)				
	Accounting Info:				
	NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00				
	GEOE 2576 RN0024				
	Funded: \$0.00		·		
	Accounting Info:				
	NSEP000-000L0 04-03-02-00090 05 000300 00 00 00				
-	GEOE 2576 RN0024 Funded: \$0.00				
	Accounting Info:				
	NSEP000000 L1 0403-02-00090-05-0003-00-00-00-00				
	GEOE 2576 RN1013		.		
-	Funded: \$0.00				
	Accounting Info:			·	
	NSEP000000 L1 0403-01-00090-05-0003-00-00-00-00			ľ	
	GEOE 2576 RN1013 Funded: \$0.00				
	Accounting Info:				
	NSEP000000 L1 0403~04-00090~05-0003~00-00-00-00				
	GEOE 2576 RN101.3		.		(b)(4)
	Funded: \$0.00.				
	Accounting Info:				
	NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00				
	GEOE 2576 RN1013 Funded: \$0.00				
	Accounting Info;				
	NSEP000-000L0 04-05-01-00090 05 000300 00 00 00				
	GEOE 2576 RN001.25				
	Funded: \$0.00				
	Accounting Info:				
	NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00 GEOE 2576 RN 1013	· ·			
	These shares				
	Funded (b)(4)				
	Change Item 0011 to read as follows (amount shown				
	is the obligated amount):				
0011	ODC - Base Year				
·	To <u>tal ODC Not To</u> Exceed Cost for this line item				
	is (b)(4)				
	Accounting Info:				
	NSEP000000 L0 0403-01-000 90-05-0003-00-00-00 GEOE 2576 RN0024				
	Funded: \$0.00				
	Accounting Info:				
	Continued				
		1	I 1		

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REFERENCE NO. OF DOCUMENT BEING CONTINUED

HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00012

NAME OF OFFEROR OR CONTRACTOR

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

MINO. A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (正)	AMOUNT (F)
	NSEP000-000L0 04-03-02-00090 05 000300 00 00 00 GEOE 2576 RN0024 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-50-00090-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: \$0.00				
	Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00				
	GEOE 2576 RN1013 Funded: (b)(4) Accounting Info: NSEP000-000L0 04-05-01-00090 05 000300 00 00 00 GEOE 2576 RN0125 Funded: \$0.00				

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	1949 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 -	1. CONTRACT D CODE		
AMENDMENT OF SOLICITATION/MOD			PAGE OF PAGES	
AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
20001.3 1980/E0 BY CC	DE DHS/OPO/NEPAD/CS&	RNCC-13-50031 7. ADMINISTERED BY (If other than item 6)	CODE IDUG (ODO (MDDAD (COL)	
I.S. Dept. of Homeland Se Dffice of Procurement Ope IPPD Acquisition Division 245 Murray Lane, SW Building 410 Fashington DC 20528	curity rations	U.S. Dept. of Homeland Office of Procurement ( NPPD Acquisition Divis) 245 Murray Lane, SW Building 410 Washington DC 20528	Security Derations	
LINAME AND ADDRESS OF CONTRACTOR (M. CIENCE APPLICATIONS INTERNATION YBER AND INFORMATION SOLUTIO 841 BENJAMIN DAVIS DRIVE OLUMBIA MD 921211578	ONAL CORPORATION	(X) 0A AMENOMENT OF SOLICITATION N 0B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/OF HSHQDC-09-D-00062 HSHQDC-1.1-J-00063 10B. DATED (SEE ITEM 13)		
COCE 8782112830000	FACILITY CODE	02/10/2011		
20 To Sublication and this anternamion, and is re 12. ACCOUNTING AND APPROPRIATION DATA See Schedule 13. THIS ITEM ONLY APPLIES	Caivos prior to the opening hour and date s (if required) TO MODIFICATION OF CONTRACTS/DRU	DERS. IT MODIFIEB THE CONTRACT/ORDER NO	). AS DESCRIDED IN ITEM 14.	·
6. THE ABOVE NUMBERED CON Sporphetics date, etc.) SET (		THE CHANGES SET FORTH IN ITEM 14 ARE M/ GT THE ADMINISTRATIVE CHANGES (such as WTHORITY OF FAN 43.103(b)		
D. OTHER (Speedy type of modul		O AUTHORITY OF:		
X FAR 43.103(a) Bij				
R. IMPORTANT: Contractor []is			he issuing office.	
14 DESCRIPTION OF AMENDMENTAMODIFICA DUNS Number: 878211283+0 AAP Number: 63422 DO/DPAS The purpose of this modifi 1. Funds in the amount (	000 Rating: NONE ication is to realign (b)(4) are hereb	funds as follows: y realigned from CLIN 00(	. · · ·	
the Lines of Accounting ( 2. CLIN 0003 is hereby de				
3. CLIN 0011 is hereby in		(b)(4)		
Continued Except as provided herein, all terms and condition	ns of the document referenced in term QA o	( 10A, as herelefore changed, remains uncharge 10A. NAME AND TITLE OF CONTRACT)	t and in tel force and effect. NG OFFICER (Tree or print)	<b>u</b> -
(b)(6)	15C. DATE SIGNE	Keturah Stroy	C. DATE SIGNED	-
			FOR (40 CFR) 53.243	
			· .	
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CONTINU	JATION SHEET REFERENCE NO. OF DOCUMENT BEING CONTINUED HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00	01.3		•	PAGE 2	0F 3
	EROR OR CONTRACTOR					
	APPLICATIONS INTERNATIONAL CORPORATION	<b></b>				
ITEM NO. (A)	SUPPLIE8/STRVICES (B)	QUANTITY	UNIT (D)	UNIT PRICE	A	ACUNT
	4. All other terms and conditions of the above numbered award romain unchanged. Discount Terms: Net 30 Delivery Location Code: PREPBSTN Preparedness (Baliston) 1110 N. Gleba Rd	107		(E) · .		(E)
	Arlington VA 22201 FOB: Destination Period of Performance: 02/11/2011 to 02/10/2013				·	
	Change Item 0003 to read as follows(amount shown is the obligated amount):					
0003	Standard Base Year					(b)(4)
	Total Line Item Value (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL				1	
	Accounting Info: NSEP000000 L0 0403-02-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: \$0.00 Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: \$0.00 Accounting Info:					
	NSEP000000 L1 0403-02-00090-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-03-00090-05-0003-00-00-00-00 GEOE 2576 RN1013 Funded (b)(4)					
	Change Item 0011 to read as follows(amount shown is the obligated amount):					·
	Continued			·		

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CONTIN	JATION SHEET REFERENCE NO. OF DOCUMENT DEING CONTINUED HSHQDC-09-D-00052/HSHQDC-11-J-00063/P00	0013				NGE OF 3 3
ME OF OFF	EROR OR CONTRACTOR APPLICATIONS INTERNATIONAL CORPORATION	****		<del></del>		3 3
TEM NÔ,	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE		AMOUNT
(A)	(B)	(C)	(D)	(E)		(Ŧ)
011	ODC - Base Year					28,000.0
	Total ODC Not To Exceed Cost for this line item i: (b)(4) Termony Value (b)(4)					
	Accounting Info: NSEP000000 L0 0403-01-000 90-05-0003-00-00-00-00 GEOE 2576 RN0024 Funded: \$0.00					·
	Accounting Info: NSEP000-000L0 04-03-02-00090 05 000300 00 00 00 GEOE 2576 RN0024					
	Funded: \$0,00 Accounting Info: NSEP000000 L1 0403-50-00090-05-0003-00-00-00-00 GEOE 2576 RN1013					
	Funded: \$0.00 Accounting Info: NSEP000000 L1 0403-04-00090-05-0003-00-00-00-00 GEOE 2576 RN1013					
	Funded: \$0.00 Accounting Info: NSEP000000 L1 0405-01-00090-05-0003-00-00-00-00 GEO2 2576 RN1013					
	Funde (b)(4) Accounting 1010; NSEP000-000L0 04-05-01-00090 05 000360 00 00 00 GEOE 2576 RN0125				I	
	Funded: \$0.00					
				•		

Sponsared by GSA FAR (40 CFR) 53.110

AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT	****	1 CONTRACT ID CODE		PAGE OF PAGES
2 AMENDMENTYMODIFICATION NO.		17.22			1 5
	3. EFPECTIVE DATE	1	QUISITION/PURCHASE REQ NO C-13-50021	16 PI	ROJECT NO. (Il appfeable)
P00014 6. ISSUED BY CODE	DHS/OPO/NPPAD/CS6		MikiSTERED BY (# other than item 6)		K Lang Jan Jan
U.S. Dept. of Homeland Secur Office of Procurement Operat NPPD Acquisition Division 245 Murray Lane, SW Building 410 Washington DC 20528 E NAME AND ADDRESS OF CONTRACTOR pro. und SCIENCE APPLICATIONS INTERNATION/ 10260 CAMPUS POINT DRIVE MAIL STOP G2 SAN DIEGO CA 921211578	ri τ γ i lons M. county, State and 204 Costay	U.S Off NPI 24: Bu Was	3. Dept. of Homeland So Fice of Procurement Ope 2D Acquisition Division 5 Murray Lane, SW Liding 410 Shington DC 20528 A AMENDMENT OF SOLICITATION NO. 8 DATED (SEE NEM 1))	ecuri. erati	ty
		1 1	ca modification of contractionde 13HQDC~09~D~00062 1SHQDC~11-J~00063	R NO.	
CODE 07021120220000	FACILITY CODE		OR DATED (SEE ITEM 13)		ann - Barr a s-bar 2004 an 2005 an 2007 an 2007 an 2007 an 2007 an 2007 an 2007 an 2007 an 2007 an 2007 an 200
CODE 8782112830000	11. THIS ITEM ONLY APPLIES TO	1 1	02/10/2011		
separate teller or telegram which includes a reformance THE PLACE DESIGNATED FOR THE RECEIPT OF where of this amendment your design to change an of to the senicitation and this amendment, and is recoive to the selectation and this amendment, and is recoive to ACCOUNTING AND APPROPRIATION DATA (If m	OFFERS PRIOR TO THE HOUR AND for elready submitted, such change may ad prior to the opinning hour and date sp submitted.	) DATE E y be mad pecified.	PECIFIED MAY RESULT IN REJECTION A	PE YOUR	APPER If by
See Schedule					
13 THIS ITEM ONLY APPLIES TO	Modification of Contracteord	IRAB. IT	MODIFIES THE CONTRACT/ORDER NO. A	s descr	IBED IN ITEM 14.
B. THE ABOVE NUMBERED CONTR. appropriation date, etc.) SET FOR		CT THE UTHOR	NGES SET FORTH IN ITEM 14 ARE NADE ADMINISTRATIVE CHANGES (such as cha TY OF FAR 43 103(b). JRITY OF:		
D. OTHER (Specify type of incelleatio	an and authorizi	-			dde farmen (fan 1 mar fan 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1 mar 1
	to Extend Services				
E. IMPORTANT: Centractor	namucob side of bestupor al [3]		n copies to the t	sadita off	//////////////////////////////////////
14 DESCRIPTION OF AMENDMENT/MODIFICATIO DUNS Number: 148095086+000	0		ig saheilallar/contract subject metter where	loasibio.)	
The purpose of this modific the period of performance ( Contract Lino Item Numbers	POP) for 6 months t	hroug	ph August 10, 2013 and	b)(4) esta	extend blish new
Funding is added to newly e extended as follows:	stablished CLINS in	the	amount (b)(4)		the POP is
1. CLIN 2001 is hereby esta				(þ)	)(4)
2. CLIN 2002 is hereby esta Continued					
Except as provided herein, ell terms and canditione o	I the document referenced in Item DA o	1	i heretofore changed, romaine wichanged ar BA NAME AND TITLE OF CONTRACTING Patricia Oliver		
(b)(6)	с одте вісни 2/91/1	3	(b)(6)		16C. DATE SIGNED
	*				cribed by GSA (40 CFR) 63.243

	UATION SHEET	01.4			PAGE OF
	EROR OR CONTRACTOR APPLICATIONS INTERNATIONAL CORPORATION				
em no. (A)	SUPPLIES/8ERVICES (B)	QUANTITY {C}	UNIT (D)	UNIT PRICE (또)	Amount (F)
	3. CLIN 2003 is hereby established and fully funded in the amount of (b)(4)				<b></b>
	4. CLIN 2004 is hereby exclusioned and fully funded in the amount o (b)(4)				
	5. CLIN 2005 is hereby established and fully funded in the amount of $(b)(4)$				
	6. CLIN 2006 is hereby established and fully funded in the amount of $(b)(4)$				
	7. CLIN 2007 is hereby established and fully funded in the amount of $(b)(4)$				
	8. CLIN 2006 is hereby established and fully funded in the amount of (b)(4)				
	9. CLIN 2009 is hereby established and will be funded via modification when the need arlaes.				
	10. CLIN 2010 is hereby established and funded in an amount not-to-exceed (NT (b)(4)				
	11. CLIN 2011 is hereby established and funded in an amount not-to-exceed (NTE (b)(4)				
	12. The total obligation of this task order is increased from $(b)(4)$ to a total o $(b)(4)$				
	13. This task order is hereby extended for 6 months through August 10, 2013. AAP Number: 63422 DO/DPAS Rating: NONE Discount Terms:				
	Net 30 Delivery Location Code: DHS Department of Homeland Security 245 Murray Lane Bldg, 410				
	Washington DC 20528 FOB: Destination Period of Performance: 02/11/2012 to 08/10/2013				
	Add Item 2001 as follows:				
001	Program Management (CPFF) Product/Service Code: R425				(b)(
	Continued				
		ł			

Spontored by GSA FAR (45 CFR) 53 110

CONTIN	UATION SHEET REFERENCE NO OF UNCENT BEING CONTINUED HSRQDC-09-D-C0062/HSRQDC-11-J-C0063/P000	12.4			PAG		OF L.
ME OF OF	FEROR OR CONTRACTOR		······································		3		5
CIENCZ	APPLICATIONS INTERNATIONAL CORPORATION						
(A)	SUPPLIES/SERVICES (B)	QUANTIT (C)	Y UNIT (D)	UNIT PRICE (E)		OMA }	JNT E')
2002	Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: CS00000-803-MA-53-02-01-002-90-05-0003-00-00-00-00 -GE-0E-25-76-CC3021 Funded: (b)(4) Add Item 2002 as follows: Technical Assessments (CPFV) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: CS00000-803-MA-53-02-01-002-90-05-0003-00-00-00-00					( )	
	$\begin{array}{c} -GE-OE-25-76-CC3021\\ \text{Funded} \qquad (b)(4)\\ \text{Add Itam 2603 as follows:}\\ \end{array}$						
2003	Standards (CPFF) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: CSC0060-803-MA-53-02-01-002-96-05-0003-00-00-00-00 -GE-0E-25-76-CC3021 Funded: (b)(4) Add Item 2004 as follows:				l	(t	o)(4)
2004	Modeling (CPFF) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: CS0C000-803-MA-53-02-01-002-90-05-0003-00-00-00-00 -GE-0E-25-76-CC3021 Funded (b)(4) Add Item 2005 as follows:						
2005	Cable Infrastructure (CPFF) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Continued						

CONTINUATION OUTERT	REFERENCE NO. OF	UMENT BEING CONTINUED		 PAGE (	}F
CONTINUATION SHEET	HSHQDC-09-D-0C	062/HSHQDC-11-J-000	63/200014		1 .
NAME OF OFFEROR OR CONTRACT		**************************************	······	 *2	<u> </u>
SCIENCE APPLICATION	S INTERNATIONAL	L CORPORATION			

TEM NO (A)	SUPPLIES/SERVICES (B)	QUANTITY		UNIT PRICE	AMQUNT
		(C)	(D)	(E)	(F)
	Accounting Info: CS00000-803-MA-53-02-01-002-90-05-0003-00-00-00-00 -GE-OE-25-76-CC3021 Funded: (b)(4) Add Item 2006 as follows:				
06	Security and Reliability (CPFF) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL				
	Accounting Info: CSC0000-803-MA-53-02-01-002-90-05-0003-00-00-00-00 -GE-0E-25-76-CC3021 Funded (b)(4) Accounting Info: CSC00C0-601-MA-53-03-02-002-90-05-0003-00-00-00-00 -GE-0E-25-76-CC3021 Funded: (b)(4) Add Item 2007 as follows:				
007	Demonstrations (CPFF) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: CS00D00-601-MA-53-03-02-002-90-05-0003-00-00-00-00 -GE-0E-25-76-CC3021 Funded: (b)(4) Add Item 2006 as follows:				(b)(4)
009	Fixed Fee Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: CS00000-601-MA-53-03-02-002-90-05-0003-00-00-00-00 -GE-0E-25-76-003021				
	Funde (b)(4) Add Item 2009 as follows:				
009	Surge Studies (Ad-Hoc) (CPFF) Product/Service Code: R425 Continued				

OPTIONAL FORM 336 (4-66) Eponsored by QSA FAR (46 CFR; 53 110

CONTRIDATION SHEET HSBODY-09-D-20063 (100000-11- 5-00000-11-	PAGE (	0F	
SONTHING FION SHEET HSHQDC-09-D-00062/HSHQDC-11-J-00063/200014	6.	1 6	
LANE OF OFFERING OF OCNTO LATON	- <b>-</b> -	1 0	

EM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY	1 1	UNIT PRICE	 AMOU	MT
	Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: CS00000-803-MA-53-02-01-002-90-05-0003-00-00-00-00-00-00-00-00-00-00-00-0	{C}	(1)	(E)	 ( F	`)
01C	Funded: \$0.00 Add Item 2010 as fellows: Travel (Reimbursible at Cost) NTE (b)(4) Product/Service Code: R425					
	Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info: CS00000-803-MA-53-02-01-002-90-05-0003-00-00-00-00 -GE-0E-25-75-00301 Funded: (b)(4)					(b)(4)
011	Add Item 2011 as follows; ODC (Reimbursible at Cost) NT (b)(4) Product/Service Code: R425 Product/Service Description: SUPFORT- PROFESSIONAL: ENGINEERING/TECHNICAL Accounting Info;					
	CS00000-601-MA-53-03-02+002-90-05-0003-00-00-00 -GE-OP (b)(4) Funded (b)(4)					
					· .	
·540-01-152-						

Mendment of Solicitation/Modi		1. CONTRACT ID CODE	PAGE OF PAGES
AMENDMENTANODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
00015	See Block 16C	RNCC-14-50007	
SEVED BY 00 8. Dept. of Homsland Sec flice of Procurement Oper PD Acquisition Division	mitv	7. ADMINISTERED BY (If other than Nom 6)	CODE
5 Murray Lane, SW 11ding 410 shington DC 20528 AMEAND ADDRESS OF CONTRACTOR AND, a	Worl, county, Stato and 242 Codes	DO ISA AMENDMENT OF SOLICITATION NO	·
ENCE APPLICATIONS INTERNATIO 80 CAMPUS POINT DRIVE L STOP G2		90, DATED (865 (7814 11)	, 
N DIEGO CA 921211678		Х 106 МОДИЛО ОГООЛГАЛТИОН К ЕБЕОДС-09-D-00062 НSEQDC-11-J-00063 100. DATED (SEE ITEM 19)	DERNO,
<sup>DE</sup> 8782112830000	FACILITY CODA	02/10/2011	
separata felior or telegram which includes a milore ILIE PLACE DESIGNATED FOR THE RECEIPT	ot forth in them 14. The hour and date specified in copies of the amendmani; (b) By ackno copies of the amendmani; (b) By ackno once to the sofialition and amendment a OF OFFERS PRIOR TO THE HOUR AN offer already augmitted, such change an invariation to the opening hour and date	the solicitation or as amended, by one of the followi wiedgingrecelpt of bits amendmentron each capy of Unibers, FAILURE OF YOUR ACKNOWLEDGEME D DATE SPECIFIED MAY RESULT IN REJECTION	f the offer submilled; or (c) By NTTO BE RECEIVED AT
		ders, if modifies the contractionder No. The changes set forth in Item 14 are mad	
	AND IN THE PARTY AND THE PARTY	TTHE ADMINISTRATIVE CHANGES (SUCH) as ut AUTHORITY OF FAR 43, 108(D). O AUTHORITY OF:	nanyan ke paying office,
D. OTHER (Specify type of modifica	tion and authinity)		······································
X Mutual Agreement o	f the Parties		
NPORTANTA Controlor Disno		t and triking	
Description of Amendment Modifications Number: 148095086+00	ON (Organized by UGF circlion heading	s, including solicitation/contrast entries mailier when	o fansible.)
e purpose of this modifi-	cation is to realign	funding from Contract Lin osts (ODCs) to 2010 Travel	le Item Numbars L as follows:
CLTN 2003 Standards - fr (b)(4)	_	om (b)(4)	
CLIN 2011 ODCs - funding		(b)(4)	
CLIN 2010 Travel - fund ntinued	ing is increased		
	of the document referenced to fam 9A o	F 10A, as herotolore changed, remeine unchanged in 18A, NAME AND TITLE OF CONTRACTING	viel in full force and alfact. 3 OFFICER (1940 of phill)
	INE		MARTIN 10-111-10-1-2-10-11-1
(b)(6)	01 		100. DATE BIGNED 11/14/2013 M 30 (REV. 10-89)

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is of off	EROR OR CONTRACTOR	*****			2 3	
IENCE	APPLICATIONS INTERNATIONAL CORPORATION					
)'EM RO.	SUPPLIES/SERVICES	QUANTIT	тичи	UNIT PRICE	AMOUNT	
(A)	(B)	(C)	(D)	(E)	(F)	
	4. The total celling and obligation of this task	<u> </u> -	+	······································		
	order remains unchanged at \$18,411,270.41.					
		5				
	AAP Number: 63422 DO/DPAS Rating: NONE					
	Discount Terms: Net 30					
	Delivery Location Code: DHS					
	Department of Homeland Security					
	245 Murray Lane				و همو رسيست فرياه	
	Mailstop 0305				÷ .	
	Washington DC 20528					
	Mark For:					
	Department of Homeland Security					
	Office of Procurement Operations					
	245 Murray Lane Mailetop 0305					
	Washington DC 20528				•	
	FOB: Destination					
	Period of Performance: 02/11/2012 to 08/10/2013					
	Change Item 2003 to read as follows (amount shown is the obligated amount);					
003	Standards (CPFF)					
	Product/Service Code: R425					
	Product/Service Description: SUPFORT-					
	PROFESSIONAL: ENGINEERING/TECHNICAL					
	Accounting Info:					
	CS00000-803-MA-53-02-01-002-90-05-0003-00-00-00-00					
1	~GE~OL~25~76~CC3021				(b)(4)	
į	Funded: (b)(4)					
	Change Item 2010 to read as follows (amount shown		1			
	is the obligated amount);					
010	Travel (Reinburgible at Cost) NT (b)(4) Product/Service Code: R425					
	Product/Service Description: SUPPORT-				•	
	PROFESSIONAL: ENGINEERING/TECHNICAL					
	No					
	Accounting Info: CS00000-803-MA-53-02-01-002-90-05-0003-00-00-00-00					
	~GE~QE~25~75~CC3021					
	Funded: (b)(4)					
	Phange them 0.011 for word on going the					
	Change Item 2011 to read as follows (amount shown Continued					
1	······································					
		6	1 1			

CIENCE	FEROR OR CONTRACTOR APPLICATIONS INTERNATIONAL CORPORATION					3	3
item No. (A)	80PPLIE8/9ERVICES (B)	QUANTIT (C)	YUNIY (D)		- <del>1</del>	AMOUNT	
	is the obligated amount):		1		v <b>a</b> /16.9	(P)	
2011	ODC (Reimbursible at Cost) NT (b)(4) Product/Service Code: R425 Product/Service Description: SUPPORT- PROFESSIONAL: ENGINEERING/TECHNICAL					(b)(4)	
	Adocunting Info: CS00000-601-MA-53-03-02-002-90-05-0003-00-00-00 -GE-OE-25-76-CC3021 Funded: (b)(4)						
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(7540-01-1 <i>8</i> 2-	9097	·	-4	<u> </u>	OPTIONAL, FOR Sponsored by O PAR (40 CPR) d	M 836 (4-88)	

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AMENDM	ENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT	<u> </u>	1. CONTRACT ID CODE	PAGE	OF PAGES
2, AMENDMI	ENT/MODIFICATION NO.	3, EFFECTIVE DATE	4 REQ	UISITION/PURCHASE REQ, NO.		9 NO, (if applicable)
P00016		See Block 16C		-14-50031	0.110022.01	no. (ii appicable)
6. ISSUED B	Y CODE	DHS/OPO/NPPAD/CS&	7. ADI	AINISTERED BY (If other then Item 6)	CODE	
Office NPPD Ac 245 Mu Buildin	apt. of Homeland Secur of Procurement Operat equisition Division rray Lane, SW ng 410 gton DC 20528					
	D ADDRESS OF CONTRACTOR (No., street	t county State and 7/D Codel	1.104	AMENDMENT OF SOLIDITATION NO		
SCIENCE / 10260 CAM MAIL STOI	APPLICATIONS INTERNATIONA		9B. X 10/ X HS	AMENDMENT OF SOLICITATION NO. DATED (SEE ITEM 11) A MODIFICATION OF CONTRACT/ORDER I SHQDC-09-D-00062 SHQDC-11-J-00063 3. DATED (SEE ITEM 13)	NO.	
CODE 8	782112830000	FACILITY CODE		2/10/2011		
·		11. THIS ITEM ONLY APPLIES TO				
séparate la THE PLAC virtue of th to the solid	etter or telegram which includes a reference DE DESIGNATED FOR THE RECEIPT OF ( it a emendment you desire to chenge an offe station and this amandment, and is received with a AND APPROPRIATION DATA (if req the dule	to the solicitation and amandment num DFFERS PRIOR TO THE HOUR AND I r already submitted, such change may d prior to the opening hour and date spe wired)	ibers. FAI DATE SP8 be made t scified,	eipt of this amondment on each copy of the o LURE OF YOUR ACKNOWLEDGEMENT TO COIFIED MAY RESULT IN REJECTION OF Y by telegram or letter, provided each telegram	OBE RECEIVE OUR OFFER, or letter makes	D AT If by reference
	13. THIS ITEM ONLY APPLIES TO M	ODIFICATION OF CONTRACTS/ORDE	R8. IT M	DDIFIEB THE CONTRACT/ORDER NO. AS D	ESCRIBED IN I	TEM 14.
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED F ORDER NO, IN ITEM 10A,	PURSUANT TO: (Specify authority) TH	IE CHANG	ES SET FORTH IN ITEM 14 ARE MADE IN	THE CONTRAC	ЭТ
X	B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH C. THIS SUPPLEMENTAL AGREEMEN			MINISTRATIVE CHANGES (such as changes OF FAR 43,103(b).	s in paying offic ,	e,
			AB III GIU			
	D. OTHER (Specify type of modification	and authority)			·	<del>~ ~~~~</del>
e, impórta	NT: Contractor 🔟 is not.	is required to sign this document a	nd return	0 copies to the isauir	na office.	
DUNS Nu	mber: 148095086+0000			olicitation/contract subject matter where teas	lble.)	
Ecruiome	ent (GFE) currently lo	cated at	15 C	o transfer the Governme (b)(4)		ished ntractor
	ance Applications Inte		on (Si	T() locuted in	(b)(4)	under
task or	der HSHQDC-11-J-00063	to the Office of the	he In:	stitute for Telecommuni	Loations	Sciences
(ITS) c	of National Telecommun	ications and Information	ation	Administration (NTIA)	of Depa	rtment of
			ch (P	SCR) laboratory in Boul	lder, CO	under
interaç	jency Agreement (IA) H	SHQDC-12-X-00258,				
The GFM	to be transferred is	listed on Attachmen	nt 1 d	of this modification.	(7 pages	}
Continu	aed					
	ovided herein, all terms and conditions of th AND TITLE OF SIGNER (7ype or print)	e document referenced in Item 9A or 1		etoforo changed, remains unchanged and in i NAME: AND TITLE OF CONTRACTING OFF		
			Pat	ricia Oliver		
15B. CONTR	RAGTOR/OFFEROR	15C, DATE SIGNED				16C. DATE SIGNED
	(Signature of person muthorized to sign)			(b)(6)		12/19/13
NSN 7540-0 Previous edi	rl-152-8070 Ition unusable			P	D FO Tescribed by G	RM 30 (REV. 10-83) SA

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Prescribed by QSA	
FAR (48 CFR) 53.243	

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	REFERENCE NO. OF L JMENT BEING CONTINUED	-	PAGE (	)F
	HSHQDC-09-D-00062/HSHQDC-11-J-00063/P00016		2	9
NAME OF OFFEROR OF CONTRACT				<u>t</u>

NAME OF OFFEROR OR CONTRACTOR

.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

ITEM NO. (A)	SUPPLIES/3ERVICES (B)	QUANTITY (C)	UNIT		AMOUNT
1	The shipping and receiving information is as	,	(1)	· (E)	(F)
	follows:				
	Shipping from:				
	(b)(6)				
					•
	The GFE is transferring from Task Order (TO)				
	HSHQDC-11-J-00063, which ended August 10, 2013.				
	Receiving Agency:				
	PSCR NTIA/ITS.P				
	325 Broadway				
	Boulder, CO 80305				
	POC: Todd Bohling; (b)(6) (b)(6)				
	The GFE is transferring to IA #HSHQDC-12-X-00258.				
	The packing, shipping preparation, and transportation is to be provided by Central				
	Moving Systems as outlined in Bid/Quote 1086 at a				
	cost not to exceed (b)(4)				
	Invoicing for this GFE transfer is to be under TO				
	HSHQDC-11-J-00063 Contract Line Item (CLIN) 2011				
	- Other Direct Costs (ODCs).				
	The total Ceiling and Obligation of this TO				
	remains unchanged at (b)(4)				
	DO/DPAS Rating: NONE Period of Performance: 02/11/2012 to 08/10/2013				
	Period of Periormance: 02/11/2012 to 08/10/2013				1
•					
7640-01-152	1	Į			OPTIONAL FORM 336 (4-80)

OPTIONAL FORM 336 (4-86) Sponsored by GSA FAR (48 CFR) 63,110 .

Attachment 1

Type of Account: GFE from HSHQDC-11-J-00063

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									•		(b)(4)												
JS0725019195	JS0725019191	JS0552028987	JS0552028988	JS0815029635	ZA0805011983	SADBOBE03336	ON08191B0309	3B0652X40585	3E0852X47405	3B0652X40518	3B0652X40515	3B0852X40639	MX-OCC302-46834-76Q-1LUU	MX-OCC302-48634-76Q-1L3U	MX-OCC302-46634-76Q-1L2U	MX-OCC302-46634-76Q-1L8U	B2H1RG1	82H1RG1	4R646D1	6R646D1	7R645D1 .	1R645D1	5L646D1
1GPS09-01-017-11	1GPS09-01-016-11	1GP809-01-015-11	1GPS09-01-014-11	1GPS09-01-013-11	197509-01-012-11	1GPS09-01-011-11	1GP\$09-01-010-11	1GP\$09-01-009-11	1GPS09-01-008-11	1GPS09-01-007-11	1GPS09-01-006-11	1GPS08-01-005-11	1GPS09-01-098-11	1GPS09-01-098-11	1GPS09-01-097-11	1GPS09-01-098-11	1GPS09-01-095-11	1GPS09-01-094-11	1GPS09-01-093-11	1GPS09-01-082-11	1GPS09-01-091-11	1GPS09-01-090-11	. 1GPS09-01-089-11
SURTASOODXL	SURTA3000XL	DLA3000RMT2U	DLA3000RM1ZU	SURTABODOXL	AP7932	AP7832	AR3107	DL725V1	DL725VT	DL725VT	. DL725VT	DL725VT	2407WFPb	2407WEPb	2407WEP5	2407WFPb	Power Edge R200	Power Edge R200	PowerEdge 860	PowerEdge 860	PowerEdge 860	PowerEdge 860	PowerEdge 360
APC Smart-UPS XL 3000VA UPS	APC Smart-UPS XL 3000VA UPS	SMART_UPS 3000V/A (network power protection)	SMART_UPS 3000VA (network power protection)	SMART_UPS 3000VA (network power protection)	APC Rack PDU, Switched, Zero U, 30A, 120V, (24) 5-20	APC Rack PDI3, Switched, Zero U, 30A, 120V, (24) 5-20	APC NetShelter SX 48U 800mm Wide x 1070mm Deep Endosure (Rack 4)	APC Back-UPS ES, 450 Watts / 725 VA, Input 120V / Output 120V , Interface Port USB	APC Back-UPS ES, 450 Watts / 725 VA, Input 120V / Output 120V , Interface Port USB	APC Back-UPS ES, 460 Watts / 725 VA, Input 120V / Output 120V , interface Port USB	APC Back-UPS ES, 450 Watts / 725 VA, Input 120V / Output 120V , Interface Port USB	APC Back-UPS ES, 450 Watts / 725 VA, Input 120V / Output 120V , Interface Port USB	Wide Fiat Panel Monitor 24"	Wide Flat Panel Monitor 24"	Wide Flat Panel Monitor 24"	Wide Flat Panel Monitor 24"	Dell Quad Core Xeon X3320 Server PowerEdge R200	Dell Quad Core Xeon X3320 Server PowerEdge R200	Rackmount Server PowerEdge 860	Rackmourti Server PowerEdge 850	Rackmount Server PowerEdge 860	Rackmount Server PowerEdge 860	5L648D1 . 1GPS09-01-089-11 PowerEdge 860 Rackmount Server Dell PowerEdge 860
7/1/2012	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011
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1,303,93	1,303.93-	1,200.00	1,200.00	1,200.00	692.60	692,60	1,520.00	37.83	37.83	37.83	37.83	37.83	669.00	əcə.00	969.00	00,639	2,554.64	2,554.64	2,356.13	2,356.13	2,356.13	2,356.13	2,356.13
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1GPS08-01-041-11	1GPS29-01-040-11	1GPS09-01-039-11	1@PS09-01-038-11	1GPS09-01-037-11	132509-01-036-11	1GPS09-01-035-11	1GPS09-01-034-11	1GPS09-01-033-11		1GPS09-01-031-11	1GPS09-01-030-11	1GPS09-01-029-11	1GPS09-01-028-11	1GPS09-01-027-11	1GPS09-01-004-11	1GPS09-01-003-11	16PS09-01-002-11	1GPS09-01-001-11	1GPS09-01-028-11	1GPS09-01-025-11	16PS09-01-024-11	1GPS09-01-023-11	1GPS09-01-022-11	1GPS09-01-021-11	1@PS09-01-020-11	1GPS09-01-019-11	1GPS09-01-018-11	「「「「「「「「」」」」」」
DCP-9045CDN	DSR2035-001	CL1000M	ASR1002	ASR1002	ASR1002	ASA5505-BUN-K9	ASA5605-BUN-K9	A\$A5505-BUN-K9	ASA5505-BUN-K9	ASA5505-BUN-K9	ASA5505-BUN-K9	ASA5505-BUN-K9	AR3107	AR3107	AP9620	AP541N-A-KS	AP541N-A-K9	3SKB-R908U30	AR3107	SURTA3000XL	SURTASCOOXL	AP7632	AP7932	SURT205	SURTO05	SURTASDOOXL	SURTA3000XL	SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE
Brother DCP 9045CDN Color Laser - Printer / copier / scanner	Avocent KVM Switch	Aren GLTUUUM LGD DVIM Integrated Console	Aggregation Services Routar	Aggregation Services Router	Aggregation Services Router	Cisco Adaptive Security Appliance	Cisco Adaptive Security Appliance	Cisco Adaptive Security Appliance	Cisco Adaptive Security Appliance	Cisco Adaptive Security Appliance	Cisco Adaptive Security Appliance	Cisco Adaptive Security Appliance .	APC NetSheiter SX 48U 600mm Wide x 1070mm Deep Enclosure (Rack 1)	APC NetShetter SX 48U 900mm Wide x 1070mm Deep Enclosure Rack 2)	APC Environmental Management System	Cisco Wineless Access Fourt	Cisco Wireless Access Point	SKB Cases Roto Shock-Mount 8U 30". depth	APC NetSheiter SX 48U sournm wide x 1070mm Deep Enclosure (Rack 3)	SMART UPS SUUVA (network power protection)	SMART_UPS 3000VA (network power protection)	Switched PDU	Switched PDU	2U step down transformer	2U step down transformer	APC Smart-UPS XL 3000VA UPS	APC Smart-UPS XL 3000VA UPS	
7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	<b>DatesReeaved</b>
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500.00	8,564.00	580.00	10,080.00	10,080.00	10,080.00	333,00	333.00	333,00	333.00	333.00	333.DO	333.00	1,200.00	1,200.00	822.00	338.00	338.00	1,290.00	1,200.00	1,500.00	1,500.00	692.60	692.60	501.00	601.00	1,259.00	1,259.00	<b>MEANERON</b>
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FTX1230A25E	FTX1230A25D	FTX1230A2PS	JHYOBUSKOTH	JHY0736K1QZ	FCZ101070UT	FOX1043017M	FOX084601Y1	FOX090300YN	FOC1042Y34H	CAT1038ZMMC	INM09322NE2	NIN225800MNI	FOX0739031H	FOX0739031J	FTX0935A12A	FTX0935A12B	FTX0933A49L	KQBW248	FOC1435Y56M	FOC1227Y20C	FCZ0929W0AH	JMX1232LOWG	INM1027183J	INM1027194A	INM10271936	INM1027194V	ID) SD=FHK070111CC	E ECCORSOCIAT / FORSE AND A CONSTRUCTION
1GPS09-01-069-11	1GPS09-01-068-11	1GPS09-01-067-11	1GPS09-01-066-11	1GPS08-01-085-11	1GPS09-01-064-11	167\$09-01-063-11	197509-01-062-11	1GPS09-01-061-11	1GPS09-01-060-11	192209-01-069-11	1GPS09-01-058-11	1GPS09-01-057-11	1GPS09-01-058-11	1GPS09-01-055-11	1GPS09-01-054-11	1GPS09-01-053-11	1GPS09-01-052-11	1GPS09-01-051-11	1GPS09-01-050-11	1GFS09-01-049-11	1GPS09-01-048-11	1GPS09-01-047-11	1GPS09-01-048-11	1GPS08-01-045-11	1GPS09-01-044-11	1GPS08-01-043-11	1GPS09-01-042-11	2 11日本のなどの日本の日本がある
CISCO2821-V/Kg	CISCO2821-VIK9	CISC02831-16-TS	CISCO2651XM	CISCO2651XM	CISCO2651XM	ESR10008	WS-C4948-S	WS-C4948-S	WS-C3750-24TS-E1U	WS-C3750G-12S-E	CP-7960G	CP-7960G	CISCO7603	CI\$C07603	CISCO2821	CISCO2821	CISCO2611-32-TS	MCS784511-K9-CM50	WS-C2960G-24TC-L	WS-C2980G-24TC-L	WS-C2950-12	ASA5540-AIP40-K9	CP-79710-GE	CP-7971G-GE	CP-7971G-GE	CP-7971G-GE	CISCO1780-V	日本のためになっていたのである。
Cisco Integrated Services Router with 802.11 AP Interface module	Soz.11 AP interface module	Cosco unegraren services Romer with 16 port Console Terminal Server	Cisco 2851XM router, dual 10/100 (E2)	Cisco 2651XM router, dual 10/100 (E1)	Cisco 2651XM router, Dual 10/100 (C1)	Edge Router for Service Providers	48 port Gigabit Ethernet switch	48 port Gigabit Ethernet switch	Cisco/Catalyst 8750G-24TS Switch	Cisco/Catalyst 3750G-12S Switch	IP Phone	JP Phone	Cisco 7603 Router with 48 port GE	Cisco 7603 Router with 48 port GE	Integrated Services Router - T1/E1 WAN, 4 FXS/O	integrated Services Router - T1/E1 WAN, 4 FXS/O	Cisco 2811 Integrated Services Router with 32 port Console Terminal Server	Cisco MCS-7854 MCS Server	Cisco Catalyst 2960 Switch	Cisco Catalyst 2960 Switch	Cisco Catalyst@ 2950-12 Switch	Cisco SA 540 Security Appliance	Cisco Unified IP Phone 7971G-GE					
7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/4/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	Saluate Receive
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3,900,00	3,900.00	2,359.00	495.00	495.00	495,00	110,000.00	12,000.00	12,000.00	5,000.00	10,000.00	400,00	400.00	45,000.00	45,000.00	5,000.00	5,000.00	3,500.00	21,000.00	1,845.20	1,845.20	250.00	19,037.00	703.00	. 703.00	- 703.00	703.00	800.00	COLORIDATION OF COLORIDATION OF COLORIDATION OF COLORIDATION OF COLORIDATION OF COLORIDATION OF COLORIDATION OF
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		1GPS09-01-135-11	1CPS09-01-134-11	1GPS08-01-133-11	1GPS02-01-132-11	1GPS09-01-131-11	1GPS09-01-130-11	1GPS09-01-129-11	1GPS09-01-128-11	1GPS09-01-103-11	162509-01-102-11	1GPS09-01-101-11	1GPS09-01-088-11	1GPS09-01-087-11	1GPS09-01-086-11	1GPS09-01-085-11	1GPS09-01-083-11	1GPS09-01-081-11	1GPS09-01-080-11	1GPS09-01-079-11	1GPS09-01-078-11	1GPS08-01-077-11	1GPS09-01-078-11	1GPS08-01-075-11	16PS09-01-074-11	162809-01-073-11	1GPS09-01-072-11	1GPS09-01-071-11	1GPS09-01-070-11
		2201-50370-200RA	2201-21400-201	SYS2043C-Lo	2201-23516-001	2201-22041-203	2215-23827-001	2215-28327-001	2201-23783-001	PowerEdge 750	PowerEdge 2850	E173FPF	PowerEdge 860	PowerEdge 860	PowerEdge 750	PowerEdge 2950	PowerEdge 2950	PowerEdge 2950	PowerEdge 2950	PowerEdge 2950	PowerVault 124T	DOCY	DOCY	DOCY	DOCY	DCCY	FY452	AlterPath KVM/het-32	CISCO3725
n		Video Camera: Powercam Main Camera VSX 8000 for video conferencing.	Polycom VSX8000 Video Conference Bridge	Polycom Management Appliance.	Palycam RMX 2000Video Conierence Bridge	Polycom Compact Video Comferencing System	Polycom HDX Microphone Kii	Polycom HDX Microphone Kit	Polycom Telepresence System	Rackmount Server	Rackmount Server Dell PowerEdge 2850	17" Monitor	Rackmount Server Dell PowerEdge 860	Rackmount Server Dell PowerEdge 860	Rackmount Server Dell PowerEdge 750	Dell Quad Core Xeon X5460 Server PowerEdge 2850	Deli Quad Core Xeon X5460 Server PowerEdge 2950	Dell Poweredge 2950 - ESX2950-02 2.66 GHz 2XQuad Core 16GB Server	Dell Poweredge 2850 - ESX2950-03 2.65 GHz 2xQuad Core 16GB Server	Dell Poweredge 2950 - ESX2950-01 2.66 GHz 2xQued Core 16GB Server	Dell Power Vault 124T Tape Backup	Dell Optiplex 745 PC	Dell Opäplex 745 PC	Dell Optipiex 745 PC	Dell Optipiex 745 PC	Dell Optiplex 745 PC	Dell Keyboard, monitor, mouse console	- Oyclades KVM Switch	Cisco Multiservice Access Router
		7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	- 7/1/2011	7/1/2011	7:1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2013	7/1/2011	7/1/2011	7/1/2011
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	•	932.94	7,399.00	21,115.00	33,520.00	3,449.00	350.00	350.00	13,449.00	3,000,00	12,000.00	200.00	2,358.13	2,355.13	700,00	8,296.34	8,296.34	9,272.79	9,272.79	8,272.78	2,000.00	817.00	817.00	817.00	817.00	817.00	850.00	4,000.00	872.04
		352.94	7,398.00	21,115.00	33,520.00	3,449.00	350.00	250.00	13,449.00	3,000.00	12,000.00	200.00	2,356.13	2,356.13	700,00	8,296.34	8,296.34	9,272,73	9,272.79	. 9,272.79	2,000.00	817.00	817.00	817,00	817-00	817.00	a50,00	4,000,00	872.04
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1GPS09-01-163-11	1GPS09-01-162-11	1GPS09-01-161-11	1GPS09-01-180-11	1GPS09-01-159-11	1GPS09-01-158-11	1GPS03-01-157-11	1GP\$09-01-156-11	1GPS09-01-155-11	1GPS09-01-154-11	1GPS09-01-153-11	1GPS09-01-152-11	1GPS09-01-151-11	1GPS09-01-150-11	1GPS09-01-149-11	1GPS09-01-148-11	1GPS09-01-147-11	1GPS09-01-146-11	1GPS09-01-145-11	1GPS09-01-144-11	162509-01-143-11	16PS09-01-142-11	1GPS09-01-141-11	1GPS09-01-140-11	1GPS09-01-139-11	1GPS09-01-138-11	1GPS09-01-137-11	1GPS09-01-136-11	
WS-C2950-12	WS-C2960G-24TC-L	SURTA3000XL		AP7932	AP7932	AP7932	WS-C3750G-12S-S	WS-C3550-24PWR-SMI	WS-C3550-24-EMI	WS-C3550-24-EMI	WE1200	2201-50370-200RA	2215-20260-200	2215-20260-200	2215-20260-200	2201-21400-201	TPCMR1U3	SUA1000RM1U	SSL-VPN-480	SPT-2000A	SPT-3040	GSX4010-AC-1512-NR	GNS15-3	L28155-H4200-A100	1.28155 H4200-A100	Scopia-100 MCU24	PD-6012G/AC/M	
Switch:Cisco Catalyst 2950-12T Switch	Switch: Cisco Catalyst 2960 Switch	3000 VA UPS	PS2 KVM Switch (Miniview ultra)	APC Switched PDU	APC Switched PDU	APC Switched PDU	Cisco Catalyst 3750 12 Part GE Switch	Cisco Catalyst 3550-24T inline power	Cisco Catalyst 3650 24 Port Switch	Cisco Catalyst 3550 24 Port Switch	Linksys WET200 wireless access point	Video Camera: Poweicam Main Camera VSX 8000 for video conferencing.	Polycom VSX Microphone Kit	Polycom VSX Microphone Kit	Polycom VSX Microphone Kit	Polycom VSX 8000 Video Conterence Bridge	Unipower Telecom DC Rectifier	APC 1000VS 1U rack-mount UPS	Barracuda SSL VPN 480 appliance	Spirent Modular Test Platform	Spirent ABACUS 5000 - IP TELEPHONY MIGRATION TEST SYSTEM	GSX4000 Series Non-Redundant Gateway	GNS15-3 Assy.	Siemens IP Phone	Siemens IP Phone	Radvision Scopia Videoconferencing Multipoint Control Unit	Power over Ethernet 6000 Mids	
7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1;2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	- 7/1/2011	7/1/2011	7/1/2011	7/1/2011	. 7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	
,-4				<u>ــــــــــــــــــــــــــــــــــــ</u>	-3.				<u> </u>			·											<u> </u>	ьà		 		
250,00	1,845.20	1,200.00	359,95	692.50	692.50	. 692.60	11,000,00	595.00	550.00	550,00	110.00	500,00	350,00	350.00	350.00	7,053,00	2,900,00	610,00	10,283.00	42,000.00	110,000.00	26,000.00	0.00	400,00	400.00	37,781.00	20-006'L	A BUNK COST
250.00	1,845.20	1,200.00	359.95	692,60	592.60	632.60	11,000.00	595.00	650.00	550.00	110.00	500,00	350.00	350,00	350.00	7,053.00	2,900.00	610.00	10,083.00	42,000.00	1.	26,000.00	0.00	400.00	1	37,781.00	1,900,00	
Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	

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000295-0000109991	20EY/NKA3025A227	20EYVNKA3025A221	07CSE0	17141797	07243165			09645000412	0836FMA023	sor48FMACAE actually (0748FMA04E)	0836FMA0HG	TSM089055 (should be NTAP DNH0844 NV38LQ	DHHJWG1	84N0AS07728615B	84N0AS077284159	705RMZ1.061773	705RMUY061686	0515800079	33683	A5809	- 0098022005000463	JN1090AC0ADA	. CFTM8160127	088014	82070B000FFEC5	DOMGX51	. NA
1GPS15-001-01-13	1GPS09-01-166-12	1GPS02-01-185-12	1GPS09-01-127-11	1GPS09-01-126-11	1GPS09-01-125-11	1GPS09-01-124-11	1GPS09-01-123-11	16PS09-01-122-11	1GPS09-01-121-11	1GPS09-01-120-11	1GPS08-01-119-11	1GPS09-01-118-11	1GPS08-01-117-11	1GPS09-01-116-11	1@PS09-01-115-11	1GPS08-01-114-11	1GPS09-01-113-11	1GP\$09-0%-112-11	1GPS09-01-111-11	1GPS09-01-110-11	1GPS09-01-108-11	1GPS09-01-108-11	1GPS09-01-107-11	1GPS09-01-106-11	1GPS09-01-105-11	1GP309-01-104-11	1GP509-01-164-11
245F	962-00007-23A	962-00007-23A	2201-23782-001	1624-23412-001	1624-23412-001	SR560M	SR560M	1GPS09-01-122-11 NN4250-SD-S.25-04-A	NETRA POL NZ40-ac	NETRA NFS N240-ac	NETRA EMS N240-ac	NetApp FAS2050	MRF CTA-DAIS- 1u32X2p1HD-a-r	M51Sn-B1	- M51Sn-B1	50PM1M-UM_A	SOPMIM-UM.A	VF1000E	CHAS-MP-M20-S	CHAS-MP-MIDI-S	NS-204-001	J-4350-18	IMX-THOM-2-AC	2215-21211-200	2215-23327-001	PowerEdge 1750	WS-C2950G-24TC-L
LTE Demo Board	Grandstream Budge Tone -200 VOIP SiP Phone	Grandstream Budge Tone - 200 VOIP SIP Phone	Polycom Telepresence System	Polycom Video Camera	Polycom Video Camera	Peerless SR560M Plasma Cart with video conference shelf	Peerless SR560M Piasma Cart with video conference shelf	Session Border Controller AcmeMet Net Packet Session Director	Sonus Policy Server on Sun NETRA 240 Server	Sonus DSINFS on Sun NETRA 240 Server	Scnus EMS on Sur NETRA 240 Server	ISCSI Storage Array Netapp FAS2050	Sonus Media Server on Dell 1950 Server	Asus M51S Laptop Computer	Asus M51S Laptop Computer	50" Plasma TV	50" Plasme TV	Session Border Controller	Internet Router Juniper M20	Internet Router Juniper M10	Firewall Juniper Netscreen 20X	Integrated Router and Firewall - 2 11 Interfaces Juniper J4350	Sonus IMX Server based on Imai TiGW1U Server	ImageShare II Scan Converter	Microphone Kit	Dell PowerEdge 1750 1U Server	. NA 1GPS09-01-164-11 WS-C2950G-24TC-L Switch: Cisco Catalyst 2960G Switch
2/7/2013	3/9/2012	3/9/2012	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	7/1/2011	. 7/1/2011	7/1/2011 -	7/1/2011	7/1/2011	
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24,000.00	65.00	85.00	15,329.00	3,400.00	3,400.00	371.00	371.00	29,295.00	17,500,00	12,500.00	17,500.00	49,548.00	7,400.00	00.686	9995.00	1,718.03	1,718.03	12,000.00	106,000.00	55,000.00	450.00	5,500,00	13,500.00	800.00	350.00	795.00	1,845,20
24,000.00	65.00	65.00	15,329.00	3,400.00	3,400.00	\$71.00	371.00	29,295.00	17,500.00	12,500.00	17,500.00	49,548.00	7,400.00	00'666	00'688	1,718.03	1,718.03	12,000.00	106,000.00	55,000,00	450.00	5,500.00	13,500.00	800.00	350.00	795,00	. 1,845.20
Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation (	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	Depreciation	7/1/2011 1 1,845.20 1,945.20 Depreciation

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- STRA (b)(4) NIA 1GPS15-001-02-13 INF 901 5000/S26A 1@PS15-001-02-13 NIA 6202 LTE eNodeB Base Station Single Radio Unit RUS 0187 (2600 MHz) 20W HW φ Distance of Comparison in Comparison in Comparison 9/8/2013 3/21/2013 -~~ 1,418.00 2,552.00 2,558.00 Depreciation 1,418.00 Depreciation

. Attachment 1