

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE 12	PAGE OF PAGES 1   2
2. AMENDMENT/MODIFICATION NO. 28	3. EFFECTIVE DATE December 15, 2004	4. REQUISITION/PURCHASE REQ. NO. N/A	5. PROJECT NO. (If applicable)		
6. ISSUED BY Procurement Office George C. Marshall Space Flight Center National Aeronautics and Space Administration Marshall Space Flight Center, AL 35812	CODE PS31-J	7. ADMINISTERED BY (If other than Item 6) Jeffrey S. Jackson (256) 544-8935 Phone (256) 544-3223 Fax		CODE PS31-J	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Science Applications International Corporation (SAIC) Company 6, Technology Services Company 10260 Campus Point Drive San Diego, CA 92121 c/o 6725 Odyssey Drive, Huntsville, AL 35806				( <input checked="" type="checkbox"/> )	9A. AMENDMENT OF SOLICITATION NO.
					9B. DATED (SEE ITEM 11)
				X	10A. MODIFICATION OF CONTRACT/ORDER NO. NNM04AA02C
					10B. DATED (SEE ITEM 13) 1/1/04
CODE CAGE- 0T5L1	FACILITY CODE SAP- 103429				

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15 and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

( <input checked="" type="checkbox"/> )	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 43.103(a) and Mutual Agreement
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor [ ] is not, [X] is required to sign this document and return 3 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

	Negotiated		Shared		Potential	Contract	Total Sum
	Estimated Cost	Savings	Award Fee	Award Fee			
Prev. Base Total	\$485,381,508	\$0	\$2,696,331	\$26,262,453	\$514,340,292	\$160,043,711	
This Modification	\$0	\$0	\$0	\$0	\$0	\$0	
Rev. Base Total	\$485,381,508	\$0	\$2,696,331	\$26,262,453	\$514,340,292	\$160,043,711	

SEE PAGE 2 FOR DESCRIPTION OF AMENDMENT/MODIFICATION

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect

15A. NAME AND TITLE OF SIGNER (Type or print) Julia A. Whitt, Contracts Manager	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Jeffrey S. Jackson, Contracting Officer
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
15C. DATE SIGNED 12/15/04	16C. DATE SIGNED 12/15/04
/s/ Julia A. Whitt (Signature of person authorized to sign)	BY /s/ Jeffrey S. Jackson (Signature of Contracting Officer)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT  
(continued)

The purpose of this modification is to correct an administrative error resulting from Performance Work Statement (PWS) changes in Modification No. 26 dated December 6, 2004. As part of this modification, PWS 3.4.2, Computer Systems Services, Part (a), was revised to incorporate additional effort associated with the cost proposal definitized by that modification. Although remaining in the official on-line version of the contract, page J-1-27 was inadvertently deleted and J-1-26, with the appropriate PWS addition, duplicated in lieu thereof. The deleted page J-1-27 contained paragraphs (a) through (g) of section 3.4.4, Agencywide Midrange Services, and sections 3.5, Russia IT Services, and 3.5.1, Russian Wide Area Network (WAN). Accordingly, NNM04AA02C is modified as follows:

- A. Attachment J-1, Performance Work Statement, is revised to replace pages J-1-26 and J-1-27 to reflect the effort added by Modification No. 26 as well as the effort inadvertently deleted by that modification.
- B. The modification(s) made above are reflected in total on the change page(s) enclosed herewith. In order to reflect the change(s) made, the page(s) listed below are hereby deleted from, or added to, NNM04AA02C. Either bolded text or a vertical change bar included in the right margin indicates the specific area(s) of change.

Page(s) Deleted

Page(s) Added

J-1-26

J-1-26

J-1-27

J-1-27

- C. All other terms and conditions of NNM04AA02C remain unchanged.

- a. Provide hardware and systems software enhancements to meet NASA customers' performance requirements in response to changing workloads and technologies. **In addition, the contractor shall provide engineering and operational support for the components of the Headquarters' Electronic Messaging Initiative (HEMI) being located at the NASA Data Center (NDC) at MSFC. These components include the NDC Active Directory, MS Sharepoint, MS Exchange 2003, and MS Live Communications and associated infrastructure.**
- b. Provide and maintain operating systems, data bases and data base management systems, compilers, libraries, and all other systems software necessary for the operation, execution and security of the computer and communications systems.
- c. Operate and maintain computer processing, peripheral, and communications systems and servers, to include monitoring, system initializations and recoveries, and storage management for production systems located at MSFC and at NASA Centers. The systems shall be operated 24 hours per day, 7 days per week.
- d. Provide change control and configuration management, risk management, standard backups and disaster recovery planning for all systems.
- e. Provide systems administration and security support, such as program/data/systems security, scheduling, quality control, user access to data center resources, account management and chargeback.
- f. Provide production control and job scheduling support for all data center systems. This includes monitoring and problem notification for all scheduled backups and problems with COTS products.
- g. Measure and report computer systems performance, throughput, and capacity information (DRD 974MA-006).
- h. Provide planned versus actual utilization by customer (DRD 974MA-006).

#### 3.4.3 Network Services

The contractor shall provide network engineering, planning and support services for the data center systems. These services include maintenance of existing capabilities, development or acquisition of enhancements, and implementation of enhancements. In providing these services, the contractor shall:

- a. Provide network services that meet the customers' performance, security and redundancy requirements.
- b. Integrate network services support required by the data center and its customers with other wide area and local area network service providers.
- c. Provide and maintain the front-end processors and channel extenders located at the NASA remote sites.
- d. Measure and report network performance and capacity information for network elements within their management requirements (DRD 974MA-006).

#### 3.4.4 Agencywide Midrange Services

The contractor shall provide Agencywide computer systems services identified in Appendix A, Category I. These services shall include operation/maintenance of existing systems, acquisition/implementation of COTS products, database administration, and development of unique systems in compliance

with established architecture standards. The system configuration documentation shall be maintained in the online Midrange Node Book (DRD 974MA-007). In providing these services, the contractor shall:

- a. Provide hardware and systems software enhancements to meet customers' requirements in response to changing workloads and technologies.
- b. Provide and maintain operating systems, database management systems, web server systems, electronic mail and distribution services, thin client software, compilers, libraries, and all other systems software necessary for the operation, execution and security of the computer and communications systems.
- c. Operate and maintain computer, peripheral, data acquisition, and communications systems, to include system initializations and recoveries, storage management, and print production and dissemination.
- d. Provide system administration such as program and data security, scheduling, and quality control.
- e. Provide security support that adheres to new security bulletins and installation of patches to fix known vulnerabilities and works within restrictions involving firewalls and other security-related constructs, maintaining compliance with NASIRC bulletins, utilizing Secure Shell for host authentication, user authentication, and encryption, and the use of TCP/IP wrappers and system monitoring for anomalies and security break-in attempts.
- f. Provide management of users to include: addition and deletion of userids, disk quotas, accounting and access control, utilization reports, consultation on advancing technologies, video and imaging support and data visualization (DRD 974MA-006 and DRD 974MA-007).
- g. Provide backups and restoration of the systems including all system files, file systems, directories, and/or user files.

### **3.5 RUSSIA IT SERVICES**

The contractor shall provide telecommunications and IT services for approved NASA Program and Project requirements in Russia. These services include: coordination, engineering, acquisition of enhancements, and implementation of IT equipment and software. The infrastructure in Russia consists of basic telecommunications and end-user IT services that are capable of delivering video, voice, data and mission operations support. The infrastructure shall be modular and scalable in design in order to be expanded, changed and/or upgraded as requirements dictate.

#### **3.5.1 Russian Wide Area Network (WAN)**

The contractor shall provide WAN connectivity, equipment, and operational support at designated locations in Russia. The contractor shall ensure interoperability of Russian services with domestic services. These services shall include: