

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE 12	PAGE OF PAGES 1 6
2. AMENDMENT/MODIFICATION NO. 133	3. EFFECTIVE DATE December 06, 2007	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) Brenda F. Tate (256) 544-7673 Phone (256) 544-8993 Fax Brenda.F.Tate@nasa.gov	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), the "Changes" clause, the "Limitation of Funds" clause, and Mutual Agreement
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, 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 Estimated Cost	Base Fee	Award Fee Earned	Potential Award Fee	Contract Value	Total Sum Allotted
Prev. Base Total	(b)(4)		\$33,967,189	(b)(4)		\$811,538,078
This Modification			\$0			\$0
Rev. Base Total			\$33,967,189			\$811,538,078

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) Jill C. Watkins, Senior Contracts Manager	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) David A. Iosco, Contracting Officer
15B. CONTRACTOR/OFFEROR <u>/s/ Jill C. Watkins</u> (Signature of person authorized to sign)	15C. DATE SIGNED 11/30/2007
16B. UNITED STATES OF AMERICA BY <u>/s/ David A. Iosco</u> (Signature of Contracting Officer)	16C. DATE SIGNED 12/06/2007

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT
(continued)

The purpose of this modification is to incorporate two separate changes to Attachment J-1, PWS Sections 3.3.5, Secure Authentication Service and 5.11, Michoud Assembly Facility (MAF) IT Services and definitize the following SAIC proposals for performance of the changes:

SAIC proposal SAIC-P-038, Revision 3, entitled "Michoud Assembly Facility (MAF) Infrastructure Upgrade Support" dated November 20, 2007, and submitted in response to NASA/MSFC letter request for proposal PS31-J/AA02C-07-278

SAIC proposal SAIC-P-040, entitled "Marshal Space Flight Center (MSFC) UNITeS Secure Authentication Service" dated November 9, 2007, and submitted in response to NASA/MSFC letter request for proposal PS31-J/AA02C-07-281

These two separate changes are being definitized in combination by this modification for administrative convenience.

Accordingly, NNM04AA02C is modified as follows:

- A. Under Section B, Clause B.2, Estimated Cost and Award Fee, the total potential Estimated Cost is increased by (b)(4). This increase consists of (b)(4) for Option Year 1 as reflected in paragraph (a) and as CLIN 003 in paragraph (b), and (b)(4) for Option Year 2 as reflected in CLIN 005 in paragraph (b). The total Potential Award Fee is increased by (b)(4). This increase consists of (b)(4) (from (b)(4)) for Option Year 1 reflected in paragraph (a) and as CLIN 003 in paragraph (b), and (b)(4) (from (b)(4)) for Option Year 2 reflected as CLIN 005 in paragraph (b). These amounts are based on the following breakouts:

SAIC-P-038, Revision 3

Paragraph (a)

	Estimated Cost	Potential Award Fee
12/07/07 - 12/31/07	(b)(4)	(b)(4)
01/01/08 - 06/30/08	(b)(4)	(b)(4)
07/01/08 - 12/31/08	(b)(4)	(b)(4)
	\$	(b)(4)

Paragraph (b)

Estimated
Cost

Potential
Award Fee

CLIN 003
CLIN 005

SAIC-P-040

Paragraph (a)

12/07/07 - 12/31/07
01/01/08 - 06/30/08
07/01/08 - 12/31/08

Paragraph (b)

CLIN 003
CLIN 005

TOTAL

Paragraph (a)

12/07/07 - 12/31/07
01/01/08 - 06/30/08
07/01/08 - 12/31/08

Paragraph (b)

CLIN 003
CLIN 005

(b)(4)



- B. Under Section B, Clause B.3, Award Fee for Service Contracts, paragraph (i) is revised to reflect the adjusted Potential Award Fee pools for the periods affected by this definitization modification.
- C. Under Section B, Clause B.6, Contract Funding, an amount of (b)(4) order to provisionally fund (b)(4) of the Potential Award Fee for the periods 7/1/07 to 12/31/07 and 1/1/08 to 6/30/08. Contractor billing of provisional award fee for any period shall not exceed (b)(4) of the Potential Award Fee pool available for that period. Balance of fee shall be paid upon allocation of Earned Award Fee as determined by the UNITEs Fee Determination Official. This action will not result in a revised coverage date.
- D. Attachment J-1, Performance Work Statement, is revised to incorporate the changes to PWS Sections 3.3.5, Secure Authentication Support, (Page J-1-24) and 5.11, Michoud Assembly Facility (MAF) IT Services (Pages J-1-86 to J-1-88) based on the definitization of both SAIC proposals. This will result in renumbering of subsequent pages.
- E. Attachment J-7, Small Business Subcontracting Plan, is amended to include the subcontracting plan supplement required by definitization of the referenced proposals for "Marshall Space Flight Center (MSFC) UNITEs Secure Authentication Service" and "Michoud Assembly Facility (MAF) Infrastructure Upgrade Support". It is noted that the cumulative definitized amount exceeds (b)(4) and adjusts the associated subcontract amounts. This plan is not numbered but is incorporated as part of Attachment J-7. Future subcontracting plan supplements will also be incorporated as part of this attachment. It is noted that the cumulative contract value associated with this plan supplement, and future plan supplements, will include contract value increases that fell below the threshold requiring submission of a small business subcontracting plan supplement, if applicable. Therefore, the cumulative value page of each supplement will also reflect definitization of these proposals.
- F. On the Standard Form 26, Award/Contract, Block 15G, the total contract value is increased by (b)(4) (b)(4) in recognition of the actions taken in (A) above.

- G. 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.

<u>Page(s) Deleted</u>	<u>Page(s) Added</u>
B-2 (Mod. 130)	B-2 (Mod. 133)
B-3 (Mod. 130)	B-3 (Mod. 133)
B-5 (Mod. 130)	B-5 (Mod. 133)
B-8 (Mod. 132)	B-8 (Mod. 133)
J-1-24 (Mod. 58)	J-1-24 (Mod. 133)
J-1-86 (Mod. 102)	J-1-86 (Mod. 133)
J-1-87 (Mod. 102)	J-1-87 (Mod. 133)
J-1-88 (Mod. 102)	J-1-88 (Mod. 133)
J-1-89 (Mod. 102)	J-1-89 (Mod. 133)
J-1-90 (Mod. 102)	J-1-90 (Mod. 133)
J-1-91 (Mod. 102)	J-1-91 (Mod. 133)
J-1-92 (Mod. 102)	J-1-92 (Mod. 133)
J-1-93 (Mod. 102)	J-1-93 (Mod. 133)
J-1-94 (Mod. 102)	J-1-94 (Mod. 133)
J-1-95 (Mod. 102)	J-1-95 (Mod. 133)
J-1-96 (Mod. 102)	J-1-96 (Mod. 133)
J-1-97 (Mod. 106)	J-1-97 (Mod. 133)
J-1-98 (Mod. 108)	J-1-98 (Mod. 133)
	J-1-99 (Mod. 133)
	J-7, Supplement 23 (Mod. 133)

- H. In recognition of the modification(s) agreed to herein as complete equitable adjustments for the Contractor's "proposal(s) for adjustment" listed below, the Contractor hereby releases the Government from any and all liability under this contract for further equitable adjustment(s) attributable to such facts or circumstances giving rise to the "proposal(s) for adjustment."

<u>Contract Change Identification</u>	<u>Contractor Proposal Number</u>
NASA/MSFC letter Request for Proposal PS31-J/AA02C-07-281 dated November 5, 2007	SAIC proposal SAIC-P-040 dated November 9, 2007 and submitted via SAIC letter SAIC-07-130 dated November 9, 2007

NASA/MSFC
Letter Request for Proposal
PS31-J/AA02C-07-278
dated October 2, 2007

SAIC proposal
SAIC-P-038
dated October 10, 2007
and submitted via SAIC letter
SAIC-07-120 dated
November 10, 2007

SAIC proposal
SAIC-P-038, Revision 1
dated October 15, 2007
and submitted via SAIC letter
SAIC-07-125 dated
October 15, 2007

SAIC proposal
SAIC-P-038, Revision 2
dated November 1, 2007
and submitted via SAIC letter
SAIC-07-128 dated
November 1, 2007

SAIC proposal
SAIC-P-038, Revision 3
dated November 20, 2007
and submitted via SAIC letter
SAIC-07-134 dated
November 20, 2007

I. All other terms and conditions of NNM04AA02C remain unchanged.

B.2 ESTIMATED COST AND AWARD FEE

(a) The estimated cost and contract fees are as follows:

Contract Year	Period Covered	Estimated Cost	Base Fee	Earned Award Fee	Potential Award Fee
Base Year 1	1/1/04-6/30/04	(b)(4)		\$2,696,331	(b)(4)
Base Year 1	7/1/04 - 12/31/04			\$4,851,221	
Base Year 2	1/1/05-6/30/05			\$4,910,402	
Base Year 2	7/1/05 - 12/31/05			\$5,162,909	
Base Year 3	1/1/06-6/30/06			\$5,301,669	
Base Year 3	7/1/06 - 12/31/06			\$5,385,246	
TOTAL Base				\$28,307,778	
Option Year 1	1/1/07-6/30/07			\$5,659,411	
Option Year 1	7/1/07 - 12/31/07				
TOTAL Opt. 1					
Option Year 2	1/1/08-6/30/08				
Option Year 2	7/1/08 - 12/31/08				
TOTAL Opt. 2					
	TOTAL			\$33,967,189	

* AF denotes Award Fee
 ** SF denotes Subjective Fee
 ***OF denotes Objective Fee

(b) The estimated cost and award fees applicable to the base period and each option period are as follows:

CLIN	Qty.	Unit	Estimated Cost	Award Fee
BASIC PERIOD (January 1, 2004 thru December 31, 2006)				
001****	1	Job	(b)(4)	
			<u>Estimated Amount</u>	<u>Maximum Amount</u>
002	1	ID/R	\$0	\$1,500,000

****The total of Estimated Cost, Earned Award Fee, and Potential Award Fee associated with CLIN 001 shall not be exceeded unless revised by bilateral contract modification.

CLIN	Qty.	Unit	Estimated Cost	Award Fee
OPTION PERIOD 1 (Jan. 1, 2007 thru Dec. 31, 2007) (Exercised)				
003	1	Job	(b)(4)	
			<u>Estimated Amount</u>	<u>Maximum Amount</u>
004	1	ID/R	\$0	\$500,000 (Exercised)
CLIN	Qty.	Unit	Estimated Cost	Award Fee
OPTION PERIOD 2 (Jan. 1, 2008 thru Dec. 31, 2008) (Exercised)				
005*	1	Job	(b)(4)	
			<u>Estimated Amount</u>	<u>Maximum Amount</u>
006**/**	1	ID/R	\$0	\$500,000 (Exercised)

* No costs against CLINS 005 and 006 shall be expended prior to 1/1/08.
 **The actual value of CLIN 006 will be the summation of individual task orders issued pursuant to this clause and clauses B.7 and B.8. A reconciliation modification will be issued as required to reflect the current task order summation value in Clause B.2.

(End of clause)

B.3 AWARD FEE FOR SERVICE CONTRACTS

(a) The contractor can earn award fee from a minimum of zero dollars to the maximum stated in **Clause B.2, "ESTIMATED COST AND AWARD FEE"** in this contract.

(b) Beginning 6 months after the effective date of this contract, the Government shall evaluate the Contractor's performance every 6 months to determine the amount of award fee earned by the contractor during the period. The Contractor may submit a self-evaluation of performance for each evaluation period under consideration. These self-evaluations will be considered by the Government in its evaluation. The Government's Fee Determination Official (FDO) will determine the award fee amounts based on the Contractor's performance in accordance with **ATTACHMENT J-5, UNITEs CPAF EVALUATION PLAN**. The plan may be revised unilaterally by the Government prior to the beginning of any rating period to redirect emphasis. Performance evaluation for PWS sections 3.0 and 5.0 will be evaluated against the standards delineated in **ATTACHMENT J-4, PERFORMANCE MEASUREMENT STANDARDS**. Any changes to this ATTACHMENT will be made by bilateral contract modification.

(c) The Government will advise the Contractor in writing of the evaluation results. The NASA/MSFC Financial Management Office, RS23 will make payment based on issuance of a unilateral modification by the Contracting Officer.

(d) The amount of award fee which can be awarded in each evaluation period is limited to the amounts set forth

(i) The amount of award fee which has been awarded pursuant to this clause, the potential award fee available for the period, and the period to which said fee applies is set forth below:

Contract Year	Period Covered	Base Fee	Earned Award Fee	Potential Award Fee
Base Year 1	1/1/04- 3/30/04	(b)(4)	\$270,275	(b)(4)
	3/31/04- 6/30/04		\$2,426,056	
Base Year 1	7/1/04 - 12/31/04		\$4,851,221	
Base Year 2	1/1/05-6/30/05		\$4,910,402	
Base Year 2	7/1/05 - 12/31/05		\$5,162,909	
Base Year 3	1/1/06-6/30/06		\$5,301,669	
Base Year 3	7/1/06 - 12/31/06		\$5,385,246	
Option Year 1	1/1/07-6/30/07		\$5,659,411	
Option Year 1	7/1/07 - 12/31/07			
Option Year 2	1/1/08-6/30/08			
Option Year 2	7/1/08 - 12/31/08			

* AF denotes Award Fee ** SF denotes Subjective Fee
 ***OF denotes Objective Fee

(End of Clause)

B.4 ALLOWABLE ITEMS OF COST (MSFC 52.242-90) (FEB 2001)

(a) In accordance with advance agreement between the Government and the Contractor for this contract, allowable costs for the items listed below are subject to the ceilings shown:

Ceilings on General And Administrative Costs-

<u>Period</u>	<u>Rate</u>
1/1/04 - 12/31/04	(b)(4)
1/1/05 - 12/31/05	
1/1/06 - 12/31/06	
1/1/07 - 12/31/07	
1/1/08 - 12/31/08	
1/1/08 - 12/31/08	

B.5 PREMIUM FOR SCHEDULED OVERTIME (MSFC--52.222-90) (FEB 2001)

Pursuant to the clause entitled "Payment for Overtime Premiums," the amount of overtime premium authorized shall not exceed the amount specified below for the indicated period.

<u>Period</u>	<u>Amount</u>
1/1/04 to 12/31/04	(b)(4)
1/1/05 to 12/31/05	(b)(4)
1/1/06 to 12/31/06	(b)(4)
1/1/07 to 12/31/07	(b)(4)
1/1/08 to 12/31/08	(b)(4)

(End of clause)

B.6 CONTRACT FUNDING (1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is (b)(4). This allotment is for performance in all areas and covers the following estimated period of performance: contract award through April 16, 2008.

(b) An additional amount of (b)(4) is obligated under this contract for payment of fees.

(c) Recapitulation of funding is as follows:

	<u>Previous</u>	<u>This Action</u>	<u>Total</u>
Estimated Cost	(b)(4)		
Base Fee	(b)(4)		
Provisional Award	(b)(4)		
Fee (Funded at (b)(4))	(b)(4)		
Award Fee Earned	\$33,967,189	\$0	\$33,967,189
Total Sum Allotted	\$811,538,078	\$0	\$811,538,078

(End of clause)

B.7 INDEFINITE DELIVERY/REQUIREMENTS

(a) The completion effort (definite quantity) of this contract is considered to be those services negotiated for the estimated cost and fees for the basic contract period and each priced option period. Work that cannot be sufficiently identified, predetermined, or quantified is identified as Requirements work.

(b) Requirements work is specified as that effort that exceeds the performance bands specified in PWS sections 5.1, MSFC Applications and Web Services, and 3.9.4 and 5.10.4, Maintenance.

3.3.4 IT Security Perimeter

The contractor shall provide support to implement and maintain a consistent IT security perimeter. In providing this service, the contractor shall:

- a. Provide a phased approach toward centralized operations of a security perimeter with respect to firewalls and intrusion detection systems. The contractor shall provide a secure NASA WAN perimeter that includes monitoring, firewall and DOS services for NASA at each peering point.
- b. Develop and maintain a Demilitarized Zone (DMZ) design consistent with the Agencywide architecture and environment in support of Agencywide projects and collaboration (DRD 974MA-007). Monitor the traffic passing into and out of the perimeters of each Center and provide an analysis of the nature of the traffic showing what types of services are being used, the volume of traffic associated with the services, how connections are made, and their identity.
- c. Deploy and operate network encryption services such as VPN or point-to-point solutions. The contractor shall provide recommendations on how to support out of band management of IT security monitoring, data analysis engines, firewall and VPN services and the operations and maintenance for such devices.

3.3.5 Secure Authentication Service

The contractor shall operate and maintain a secure authentication service. In providing this service, the contractor shall:

- a. Create, issue, and manage smart card authentication and secure tokens. Maintain records in accordance with DRD 974MA-007.
- b. Provide smart card administration for the Agency.
- c. Maintain and operate the secure authentication infrastructure.
- d. Coordinate in a seamless fashion with the appropriate security services organizations regarding smart card administration.
- e. Integrate Agencywide applications with the smart card.

In addition, the contractor shall provide project support (e.g., conversion) for NASA enterprise solution for secure authentication, including Common Badging Access Control System (CBACS), NASA Integrated Services Environment (NISE), Headquarters Electronic Messaging Initiative (HEMI), and E-Authentication. *This includes support to other NASA Centers and NASA Agency-wide projects. The contractor shall support the development and maintenance of a "create identity" process. The contractor shall also provide a tier 2 level help desk to assist Center and Agency users with the operation and integration of NAMS.*

3.4 DATA CENTER SERVICES

The contractor shall provide the data center services that centrally manage computer systems and computer operations for the Agency. MSFC is delegated project management responsibility for the NASA ADP Consolidation Center (NACC), a centralized mainframe capability, and for other Agencywide midrange/server systems. The data center shall provide the following for the Agency and its customers:

- a. Consolidation and centralization of various NASA center workloads onto fewer mainframe and midrange/server platforms and operating environments that are standard in nature.

5.11 MICHoud ASSEMBLY FACILITY (MAF) IT SERVICES

The contractor shall provide IT services to support the Michoud Assembly Facility (MAF) customers. These services include telecommunications services, *Emergency Warning Systems (EWS) support, Mobile Emergency Operations Vehicle (MEOV) support*, and local area network services.

5.11.1 Telecommunication Service

The contractor shall provide telecommunication services at MAF. These services include telephone services, FAX services and other telecommunication services.

5.11.1.1 Telephone Services

- e. Operate and maintain the telephone and voice mail systems and associated equipment.
- f. Provide telephones and associated features such as call forwarding, conferencing, call pickup, transfer, voice mail, and other features.
- g. Install, relocate, configure, and maintain the telephone instruments and other end-service equipment and capabilities.
- h. Install, configure, and maintain small conferencing units for the office environment.
- i. Provide overhead paging service capable of broadcasting voice messages in specified areas.
- j. Provide pager services, cellular telephones and wireless communication services for authorized personnel.
- k. Operate and maintain the voice over Internet Protocol (IP) systems.
- l. Provide specification of requirements, design, implementation, procurement, and operations of local telephone service, including dial-tone, inbound/outbound trunking, fiber to near-site locations, and access to 911.
- m. Provide specification of requirements, design and interface to long distance switched voice and data services, provided by FTS2001.
- n. Provide, test, and maintain power fail telephones. Power fail telephone circuits do not connect to or go through the MAF telephone system. The power fail telephones shall operate in the event the MAF telephone system loses power or becomes inoperable.

5.11.1.2 Facsimile Service

The contractor shall provide facsimile services that include MAF facsimile. These services include maintenance of existing capabilities, development or acquisition, and implementation of enhancements. In providing this service, the contractor shall:

- a. Maintain the existing facsimile machines and services.
- b. Procure, install and maintain facsimile hardware and services.

- c. Procure, install and maintain facsimile hardware and software to integrate this service with MAF electronic mail services.

5.11.1.3 Other Telecommunications Services

The contractor shall provide other services required to meet customer requirements. These services include maintenance of existing capabilities, development or acquisition, and implementation of enhancements. In providing these services, the contractor shall:

- a. Provide fixed, portable, and mobile radios.
- b. Provide radio frequency spectrum management service.
- c. Provide and maintain interbuilding cable systems and system documentation (DRD 974MA-007).
- d. ***Augment the MAF fiber optic and copper infrastructure with an upgraded infrastructure that will support disaster recovery and reconstitution needs as well as provide the infrastructure necessary to support future disaster recovery planning.***
- e. Provide and maintain the MAF Access Control System (MACS), and the Video MACS (VMACS).
- f. Provide emergency telecommunications and operations support services, ***including Emergency Warning Systems support***, during disaster/emergency situations such as fire, explosion, accident, bomb threat, civil disturbance, terrorist-related incidents, flood, ice, snow, and tornadoes.
- g. Provide and maintain dedicated transmission services between local customers and host computer systems.
- h. Provide, set up, and maintain portable audio-visual equipment for special events.

5.11.2 Local Area Network (LAN)

The contractor shall provide IT requirements evaluation, engineering, software and hardware maintenance, operations, and system administration for MAF LAN services and LAN systems.

5.11.2.1 LAN Systems

In support of the infrastructure systems, the contractor shall:

- a. Engineer, operate and maintain MAF routers, firewalls, switches, Virtual Private Network (VPN) and dial-in devices.
- b. Engineer, operate and maintain network peripherals, such as scanners, wireless access points and other network based systems.
- c. Engineer, operate and maintain infrastructure server systems, including, domain, domain controllers for Active Directory, and other servers supporting core network functions (see services below).

5.11.2.2 LAN Services

In support of the LAN services, the contractor shall:

- a. Maintain the Domain Name Service (DNS) and Dynamic Host Control Protocol (DHCP).
- b. Operate and maintain the VPN server and client software and Dial-in service.
- c. Provide port-level security (switch level) administration.
- d. Provide wireless access services engineering and maintenance.
- e. Provide IP address management for assigned address space.

5.11.3 MAF Facility Modeling

The contractor shall model the interior plant layout of designated MAF facilities. The work shall include on site digital scanning, data collection, and 3D solid modeling. The developed model shall include vertical structural members, large permanent interior structures (office spaces, partition walls, etc.), large electrical or equipment control boxes mounted to vertical structures, and overhead cranes and trolleys. Geometry shall be represented at least at a bounding box level that is sufficient to allow for an analysis of available space. The final model shall be provided in a format compatible with DELMIA digital manufacturing software.

5.11.4 MAF Mobile Emergency Operations Vehicle (MEOV)

The contractor shall provide design, engineering, procurement, and operations and sustaining support for FEMA-supported Mobile Emergency Operations Vehicles (MEOV) specifically designed and engineered to provide emergency communications and data processing capabilities in the event of a high risk/catastrophic event at the MAF.

The MEOV design shall specifically support federal, state, and local emergency response command, control, and communications requirements. The use of satellite connectivity, PBX switches, UHF/VHF radios, video teleconferencing equipment, wireless LAN systems for Internet connectivity and a bank of wireless phones with assigned numbers shall permit voice and data communications restoration even in remote locations. The MAF requirements shall be met via custom design changes to address data and communications challenges, ranging from special vehicle specifications to any of the electronic equipments integrated within the vehicle. A thorough analysis shall be conducted to determine the ultimate quantities and configurations for MEOV's to support the needs of the MAF.

Congruent with the design and development of the MEOV to support MAF, the contractor shall implement a solution that provides for centralized backup of user data and files. MAF desktop users shall have their folders redirected to a centralized location that will subsequently be backed up to a tape storage unit for offsite storage. This offsite storage shall facilitate data restoration and reconstitution in concert with the mobile command, communications and operations vehicles. The integration of a robust data backup policy and mobile command and control shall provide the NASA staff at MAF robust data restoration capabilities should a catastrophic event damage,

or render useless, the primary desktops, file servers, and user storage mechanisms. In order to perform these services, the contractor shall:

- a. Provide and install the necessary network appliance and storage units.***
- b. Provide and install tape backup unit(s), as necessary, to provide hardened storage solution.***
- c. Implement a domain security policy that will backup subscribed desktops.***
- d. Develop, test, evaluate, and deploy a comprehensive desktop backup solution.***

As part of the total solution, the contractor shall implement a mobile IT Security posture which shall be integrated into the overall design of the specific MEOV and ensure that vital IT Security is maintained throughout an Emergency Data Recovery exercise.

APPENDIX A SYSTEMS RESPONSIBILITIES

Category I. CIO Managed Systems for which the Contractor shall have Systems Manager Responsibilities

SERVICE TYPE	SYSTEM NAME	CURRENT MODEL
MSFC Services	Internet Gateway	Sun
	Midrange Computer Systems	IBM RS6000, Compaq DL380, SGI, HP DEC Alpha, Sun
	Test Area Systems	HP Alpha, PCs, MODCOMP
	MSFC Telephone Systems	EADS Northern Telecom PointSpan
	MAF Telephone Systems	EADS Northern Telecom PointSpan
	MAPTIS Systems	Compaq NT and DEC Alpha
	MAPTIS II System	Dell Precision 420 Dual CPU
	Video MSFC Access Control System	Lenel
	MSFC Access Control System	LYNX Intel
	Radio, Paging & EWS	see DRD 974RM-001
	Audio/Video Systems	see DRD 974RM-001
	Infrastructure Security Services (Firewalls, ACE authentication services, risk assessment and scanning)	Cisco, Solaris, Win2K, Linux, SGI, Nokia/Checkpoint
	NSSTC Infrastructure	Cisco (IOS, CAT OS, embedded), W2K/NT4/W98, SGI, Linux
	NSSTC User Applications Systems Support	SGI, Linux, OpenVMS, W2K, Solaris
MAF Local Area Network	Cisco routers, switches and firewalls, patch panels, Cisco Works, network and IT security related services, and fiber transceivers	

**APPENDIX A
SYSTEMS RESPONSIBILITIES (CON'T)**

SERVICE TYPE	SYSTEM NAME	CURRENT MODEL
Agencywide Services	All Development Tools	see DRD 974RM-001
	NACC	IBM 9672-RB6, IBM 3490, IBM 3480, STK 9500, STK VSM, STK 9310, Sun V880, IBM P series
	Midrange Computer	IBM RISC 6000, Compaq, Sun, Dell 2650, Sun V480
	<i>IEMP</i>	Compaq DL-360, DL-380 Compaq 1850R, 3000, 6000, 6500 and 7000 Dec Alpha 4100 and 8400 Sun E10000, Sun 6500, Sun 4500, Sun 450, Sun V880, Sun SPARC 2 and 10, Sun Ultra 5, 10 and 60 Various Gateway and Micron Workstation class servers

**APPENDIX A
SYSTEMS RESPONSIBILITIES (CON'T)**

SERVICE TYPE	SYSTEM NAME	CURRENT MODEL
Agencywide NISN	PSLA database NISN Service Request System	SUN UNIX, Remedy
	Intrusion detection sensors	CISCO PIX, Checkpoint
	Video Teleconferencing System (ViTS) ViTS Rollabout (VRA) system	Video codecs, viewstations, mixers, Audio/Video cassette recorders, cameras, video controllers, remote controls, character generators, terminal servers, video monitors, amplifiers, display units, document cameras, audio/video matrix switch, camera controllers, echo cancellers, plasma screens, touch screens, projectors, multipoint control unit (MCU); Polycom
	Video Conferencing Reservation system (VCRS)	Oracle with web interface. NT server with access to an ADE RISC 6000 database server
	Voice Teleconferencing Systems	Polycom voice conferencing units, audio modules, audio mixers, audio synchronizers
	Voice Teleconferencing Service	Polycom, Shure, Gentner audioconferencing units

**APPENDIX A
SYSTEMS RESPONSIBILITIES (CON'T)**

SERVICE TYPE	SYSTEM NAME	CURRENT MODEL
Agencywide NISN, con't	Mission Voice Switching System (VSS)	2048 port digital switch
	Routed Data Service	Cisco/Juniper/Bay routers, patch panels, modems, fiber modems/multiplexers/repeaters, inverse multiplexers, channel service units, channel banks, CSU/DSUs, disk drives
	Mission Network Service Assurance Plan (NSAP) backbone	Conversion devices
	High Rate Data/Video Service System	Statistical Multiplexer
	NASA Directory Service	Sun Solaris, Syntegra Mail*Hub
	NISN Activity and Outage Posting and Notification System (AOPNS) NISN Mission outage notification system (MONS) Flash Reporting System	Sun UNIX
	Enterprise Network Management Center (ENMC)	Sun SPARCstations

**APPENDIX A
SYSTEMS RESPONSIBILITIES (CON'T)**

Category II. CIO Managed Systems for which the Contractor shall have Limited Responsibilities

SERVICE TYPE	SYSTEM NAME	RESPONSIBILITIES
MSFC Information Services	Photographic and Visual Service System	Operations
	IES	Software Maintenance & Sustaining Engineering
Agencywide	Secure voice teleconferencing system	Operations & Maintenance
	SMARTCards	Operations & Maintenance

Category III. Non-CIO Managed Systems for which Contractor shall have Limited Responsibilities

SERVICE TYPE	SYSTEM NAME	RESPONSIBILITIES
MSFC Information Services	User owned midrange	Operations, and Maintenance
	All other MSFC IT Computer Equipment (except HOSC)	Hardware Maintenance (see DRD 974RM-001)
Agencywide, NISN	Voice teleconferencing service	Interface with provider & reporting
	VoTS scheduling system	Interface with provider & reporting
	NISN Mission video system	Interface with provider & reporting
	Video Teleconferencing Service	Interface with provider & reporting
	WAN Transmission Services	Interface with provider & reporting
	High Rate Data/Video Service System	Interface with provider & reporting
	FAX Broadcast Service	Interface with provider & reporting

APPENDIX B APPLICATIONS/WEB CATEGORY DESCRIPTIONS

CATEGORY	DESCRIPTION
1	NASA-wide or MSFC-wide application service or web site, critical or highly visible or complex application/web service.
2	Medium scale application service or web site, less complex, with medium criticality
3	Administrative and support application service/web site, or small user community

Pages 22 through 23 redacted for the following reasons:

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APPENDIX D

LISTING OF IEMP MODULES

1. Core Financial (CF)
2. Contract Management Module (CMM)
3. Travel Management (TM)
4. Resume Management (includes the Recruitment One Stop e-Gov initiative)
5. Position Description Management (PDM)
6. Agency Labor Distribution System (ALDS)
7. Business Intelligence Tools
8. e-Payroll System
9. Erasmus
10. i-View Portal
11. WebTADS
12. e-Travel Services (eTS) (Mod. 106)
13. Integrated Asset Management (IAM)(Plant, Property & Equipment (PP&E))(Mod. 106)
14. Human Capital Information Environment (HCIE) (Mod. 106)

APPENDIX E

LISTING OF e-BUDGET SUITE APPLICATIONS

- **N2** – N2 is NASA's agency budget formulation tool. This application enables upload, review, and analysis of the Institutional Budget and Business Base, as well as automated capabilities to generate and apply rates across the Full Cost Budget.
- **IBPD** – The Integrated Budget and Performance Document (IBPD) application is NASA's tool to prepare and archive the Integrated Budget and Performance Document that is sent to Congress each February. The IBPD application allows authorized users to create, query, and analyze NASA budget and performance information in an easy, on-line tool.
- **Reports** – The Reports application is the home for NASA's budget and structure reports. A series of predefined reports allow authorized users to query subsets of data quickly and easily. Through the use of report parameters, or selection criteria, users have flexibility with these predefined reports to customize the information retrieved to meet their specific needs.
- **MdM** – The Metadata Manager is the home for NASA's standard Program/Project structure. The MdM is a web-based application that controls the creation, maintenance, and archiving of the NASA Structure Management (NSM) structure.
- **MdM Interfaces** – The MdM interface sends NSM data to various systems including core financial SAP system, and other systems.
- **Clearinghouse** – The Clearinghouse is a document management system that holds NASA specific files. Originally designed as a tool to communicate directly with OMB, the Clearinghouse is now used in a much greater capacity to exchange documents within the NASA community. Authorized users have the capability to upload or view any type of file.
- **System Administrator** – Authorized users will configure the different systems to be used by the necessary user groups through this robust System Administration module.