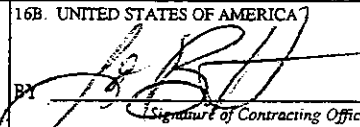


AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE W-19800		PAGE OF PAGES 1 2													
2. AMENDMENT/MODIFICATION NO. 39		3. EFFECTIVE DATE See Block 16		4. REQUISITION/PURCHASE REQ. NO. see following page		5. PROJECT NO. (If applicable) -													
6. ISSUED BY NASA/GSFC/Headquarters Procurement Office Mail code 210.H, Attn: John Brett Greenbelt, MD 20771-0001		CODE 210.H		7. ADMINISTERED BY (If other than Item 6) CODE															
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP: Code) Science Applications International Corporation 7980 Science Applications Court CV-48 Vienna, VA 22183				(✓)		9A. AMENDMENT OF SOLICITATION NO.													
						9B. DATED (SEE ITEM 11)													
						10A. MODIFICATION OF CONTRACT/ORDER NO. W-19800													
						10B. DATED (SEE ITEM 13) May 3, 2000													
CODE 52302		FACILITY CODE																	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS																			
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> 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 one (1) copy 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 DATA 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 data specified.																			
12. ACCOUNTING AND APPROPRIATION DATA (If required) See following page.																			
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">(✓)</td> <td style="width: 5%;">A.</td> <td>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.</td> </tr> <tr> <td></td> <td>B.</td> <td>THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).</td> </tr> <tr> <td></td> <td>C.</td> <td>THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:</td> </tr> <tr> <td style="text-align: center;">X</td> <td>D.</td> <td>OTHER Specify type of modification and authority) 52.232-22 Limitation of Funds (April 1984);</td> </tr> </table>								(✓)	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 date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).		C.	THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:	X	D.	OTHER Specify type of modification and authority) 52.232-22 Limitation of Funds (April 1984);
(✓)	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.																	
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	C.	THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:																	
X	D.	OTHER Specify type of modification and authority) 52.232-22 Limitation of Funds (April 1984);																	
E. IMPORTANT: Contractor <u>X</u> is not, <u> </u> is required to sign this document and return <u>2</u> copies to the issuing office.																			
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) See following page.																			
<small>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.</small>																			
5A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) John Brett, Contracting Officer															
5B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)		16C. DATE SIGNED October 31, 2001													

W-19800
Modification 39

B.5, CONTRACT FUNDING, is revised as follows:

(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 subtask 0201AA-AB (Core) is \$16,113,045.19. This allotment covers the following estimated period of performance 30 May 2000-TBD

(b). 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 subtasks 0201AB-AC through 0201AB-BP is \$23,345,078.68. This allotment covers the following estimated period of performance 30 May 2000-(see Table A estimated date at which allotment expires)

(c) An additional amount of \$ 2,148,732.63 is obligated under this contract (CLIN 0201AB-AB) for payment of fee.

10.0 SPECIAL REQUIREMENTS FOR HEADQUARTERS OFFICES

Pursuant to SOW 10.2, *Tasking Process*, NASA issues revised subtask 10.62 (CLIN 0201AB-AU) (See Table A for task value and award fee adjustment). The period of performance for this subtask continues from the effective date of this modification to May 31, 2002. The latest revised 10.62 Statement of Work is attached as Attachment A.

ACCOUNTING AND APPROPRIATION DATA

- The funds added by this modification also update Block 21 of the SOLICITATION, OFFER AND AWARD, SF33. The accounting and appropriations and funding data for this modification, by subCLIN, is as follows:

Line Item	Task Order	Procurement Request	Fund Source	Appropriation Symbol	Object Class	UPN/HPN	Office/Fin Code	IMS	Costs
0201AA-AA	10.00	10-06656	54	80230111	2529	379-06-03	MAA00	300204	\$85,000.00
0201AA-AB	10.00A	10-06680	29	801/20110	2529	410-20-01	UPA00	30-02-04	\$4,758.00
0201AA-AU	10.62	10-06680	29	801/20110	2529	410-20-01	UPA00	30-02-04	\$101,152.00
0201AA-AE	10.08	10-06659	29	801/20110	2336	409-06-03	YAA00	40-00-00	\$200,000.00

2. Funding Changes by Subtask

	From	By	To
10.00 (Core)	\$ 16,028,045.19	\$ 85,000.00	\$ 16,113,045.19
10.08	\$ 1,393,314.26	\$ 200,000.00	\$ 1,593,314.26
10.62	\$ 184,420.43	\$ 101,152.00	\$ 285,572.43
10.00A (Award Fee)	\$ 2,143,974.63	\$ 4,758.00	\$ 2,148,732.63

Technical Support for the Office of Biological and Physical Research (OBPR) Description of Work

10.62 Technical Support For The NASA Science Internet

10.62.1 General

The purpose of this task is to develop, explore, exploit, demonstrate and support deployment of state-of-the-art and leading edge Internet technologies associated with OBPR Internet and Information Infrastructure and Technology Applications, for the benefit of NASA's science, research and technology development programs. This task bridges the gap between the OBPR Internet operations environment and the advanced research programs, to exploit these new technologies for the benefit of OBPR. It is an R&D/Internet-based activity that complements NASA Headquarters core ADP services.

10.62.2 Technical Support Requirements For The OBPR

10.62.2.1 General

The Vendor shall demonstrate, evaluate and support deployment of solutions to accommodate audio and video interactive sessions and data transfer.

10.62.2.2 Demonstrations and Training

The Vendor shall provide demonstrations and training on the deployment and operation of these advanced Internet applications to:

- A. NASA programs;
- B. NASA collaborators as required; and,
- C. NASA Headquarters ADP support service providers as appropriate.

The Vendor shall engage wide-area networking (WAN) expertise to maximize access to NASA information resources by both external groups (to NASA) and other internal groups (components of Program Offices located at Field Centers, for instance).

10.62.2.3 WWW Information Services And Products

The Vendor shall develop and exploit WWW information services and products for the Code by providing assistance to this Code in adding to or changing existing Web-related material and in editing and formatting this material. Further the Vendor shall establish controlled WWW page versions consistent with both existing Internet practice and present and future NASA policy. The vendor shall modify the structure of the OPBR Web site in order to take advantage of a three-tiered architecture for long-term

cost-savings. Specifically the Vendor will use XML and Java Servlet technologies to provide separation of the logic presentation and content layers. Furthermore, the Vendor shall coordinate with various NASA partners and centers in order to facilitate content delivery in XML format.

10.62.2.4 Internet related Code Development Requirements

Code development requirements for WWW activities include:

10.62.2.4.1 Prototype WWW Page Development

Developing prototype WWW pages for the Code which include developing prototype World Wide Web pages integrating the Code's Divisions and the Code's total organization into the NASA WWW structure for review by the Code Associate Administrator and Division Directors or their assignees.

The Vendor shall conduct on-going research into, and recommend, the XML-base content management tools (either custom-built or COTS) that provide revision control and integrate with current office automation tools. The Vendor shall be expected to determine costs and level of effort for integration of any recommended COTS tools. The Vendor shall further be expected to provide content management "proofs of concept" that could be easily integrated into possible future COTS products purchased by the Enterprise.

10.62.2.4.2 Architecture Development

Developing the Functional, Structural, Navigational and Aesthetic Architecture for the Code's WWW presence in such a way that it emphasizes the World Wide Web as a "way of doing business." The Vendor shall identify, through analysis and interview, the information content requirements of the WWW pages for the Code and its Divisions, but will include necessary elements or WWW tools to provide organizational and program charts on-line and will identify various components, methodologies and procedures for using the WWW as a means of tracking information and metrics for the Code and the Divisions as part of their responsibilities to NASA Management.

The Vendor shall provide strategic direction to NASA, via cost and impact analysis, on how XML architecture could provide cost-savings.

10.62.2.4.3 Rapid Prototype Development

Developing World Wide Web rapid prototypes for databases and other information repositories in keeping with the spirit of using the WWW as a "means of doing business" such as:

- A. Multipoint shared access to on-line applications and databases allowing for simultaneous collaborative changes to be made to documents and databases from individuals logged in at physically distant points using TCP/IP as a transmission protocol;
- B. Budget and Financial Data (examples: Program Operating Plan and Annual Operating Plan);
- C. Program and Project Plans; and
- D. Monthly Program Reviews;
- E. Congressional Liaison Tools; and
- F. File (or Content) Management Tools;

10.62.2.5 UNIX WWW Management

The Vendor shall support existing UNIX activities including routine system administration, establishing and maintaining HTTP, FTP and other server functions and installing and initializing or compiling required software applications. Also, the Vendor should work with the Code to determine which UNIX services (or individual boxes) can and should be migrated to an operational environment.

The Vendor shall support the installation and configuration of all required UNIX tools for maintaining and managing XML content including:

- A. SAXON
- B. JRE 1.2.2
- C. Tomcat; and
- D. Cocoon

10.62.2.6 Anticipating Internet related Service Capabilities

The Vendor shall work with the Code to assess the physical and technical infrastructure (including plant wiring and hub configuration) both as it currently is and as it might evolve. This assessment will take the form of an engineering task to gauge and monitor local area and wide area network throughput, traffic peaks, and server demand. The assessment will be undertaken with the goal of advising both the Code and CI/ISEM as to the impact on Code-unique and Headquarters infrastructure of anticipated higher use of Internet and WWW-applications. The assessment will also take an engineering approach to examining server architecture with a goal of providing solid engineering recommendations as to server configuration (UNIX or other) and LAN/WAN configuration.

10.62.3 Deliverables

The Vendor shall deliver documented evaluation and development of Internet and client-based solutions, which further the collaborative IT environment for the Enterprise. The Vendor shall develop and deliver the following for OY1:

- A. XML version of current web site
- B. All required Document Type Definitions (DTD)
- C. All required Cascading Style sheets (CSS)
- D. All required XML Transformation Style sheets (XSLT)
- E. Recommendations for "Best of Breed" XML content management tools
- F. At least two (2) modular "proofs of concept" XML content management tools

10.62.4 Metrics

The performance standards specified in 10.3.1 and 10.3.2 are applicable to this task.

Estimated Cost and Award Fee, Current Funding

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3:51 PM

ISEM Task Order, W-19800
Modification 39
Table A

Estimated Cost and Award Fee, Current Funding

		Estimated Costs (Reference B.4)				Award Fee (Reference B.4)			
Subtask CLIN	Task	From	By	To	From	By	To	Current Funding - Obligated Costs	Estimated End Date of Funding
0201AB-BD	10.86			\$778,475.00			\$ 27,608.00	\$ 651,222.15	04-Jan-02
0201AB-BE	10.87			\$689,305.88			\$ 20,400.00	\$ 489,932.50	02-Feb-02
0201AB-BF	10.88			\$671,237.58			\$ 43,831.00	\$ 290,655.00	01-Mar-02
0201AB-BG	10.89			\$839,932.00			\$ 48,728.00	\$ 270,000.00	09-Nov-01
0201AB-BH	10.90			\$51,492.00			\$ 3,329.00	\$ 38,281.00	07-Dec-01
0201AA-BI	10.91			\$3,250,904.00			\$ 143,509.00	\$1,100,000.00	07-Dec-01
0201AB-BJ	10.92			\$584,585.00			\$ 40,775.00	\$ 584,585.00	31-May-02
0201AB-BK	10.93			\$81,307.00			\$ 5,620.00	\$ 62,269.00	01-Mar-02
0201AB-BM	10.95			\$10,591.00			\$ 659.00	\$ 10,591.00	31-May-01
0201AB-BN	10.96			\$1,126,777.00			\$ 76,446.00	\$ 729,998.07	07-Dec-01
0201AB-BO	10.97			\$118,828.00			\$ 7,934.00	\$ 118,828.00	09-Nov-01
0201AB-BP	10.98			\$46,241.00			\$ 3,263.00	\$ 46,241.00	15-Mar-02