

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGE(S)
	1 2

2. AMENDMENT/MODIFICATION NO. 1	3. EFFECTIVE DATE MAY 31 2000	4. REQUISITION/PURCHASE REQ. NO. See Block 12.	5. PROJECT NO. (If applicable)
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6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Dick Hathaway Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(✓)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
CODE	FACILITY CODE	10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SCA.1022; R22904; \$21570; Complete; Task 2 ^{awad} PR: SCB.1028; R26498; \$35,000; Complete; Task 4 ^{Sent}

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

(✓)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) 53570
The purpose of this modification is to incrementally fund the contract cost and fixed fee in the amounts of \$160,570 and \$3,000, respectively pursuant to the Contract Funding clause. The total allotment period remains September 31, 2000. Accordingly, the following change is made to the Contract Schedule:

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Tracy M. Spruill
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED
(Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY <i>Tracy M. Spruill</i> (Signature of Contracting Officer)
	16C. DATE SIGNED 5/31/00

FILE COPY

Paragraph 3, Contract Funding, is restated as follows:

"3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$412,919. This allotment covers the following estimated period of performance: April 13, 2000 through September 31, 2000.

(b) An additional amount of \$21,000 is obligated under this contract for payment of fee."

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CFPP Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		56570 160,570	3,000	163,570
Total		412,919	21,000	433,919

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGE(S)
1 2

2. AMENDMENT/MODIFICATION NO. 2
3. EFFECTIVE DATE June 6, 2000
4. REQUISITION/PURCHASE REQ. NO. See Block 12.
5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
7. ADMINISTERED BY (If other than Item 6) CODE

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-2199

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code)

Attn: Dick Hathaway
Mail Stop 429
Mainthia Technologies Inc.
NASA Langley Research Center
Hampton VA 23681

(✓) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

NAS1-00077

10B. DATED (SEE ITEM 13)

4/13/00

CODE FACILITY CODE

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 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)
PR:SCB.1029; R26498; \$30,506; Complete PR:SCB.1026; R26440; \$73,361; Complete

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

(✓) 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.
X 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:
D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

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

The purposes of this modification are to (1) incrementally fund the contract cost and fixed fee in the amounts of \$98,882 and \$4,985, respectively pursuant to the Contract Funding clause; and (2) correct funding Modification 1 in which an additional \$107,000 was inadvertently funded to cost. As a result of the funding additions and deletions a total of \$8,118 is deleted from cost and the total allotment period remains September 30, 2000. Accordingly, the following change is made to the Contract Schedule:

(continued)

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)
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
TRACY M. SPRULL
15B. CONTRACTOR/OFFEROR
15C. DATE SIGNED
16B. UNITED STATES OF AMERICA
BY *Tracy M Sprull*
(Signature of Contracting Officer)
16C. DATE SIGNED
10/6/00

FILE COPY

Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$404,801. This allotment covers the following estimated period of performance: April 13, 2000 through September 30, 2000.

(b) An additional amount of \$25,985 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CFPP Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Total		404,801	25,985	430,786

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE _____ PAGE 1 OF 2 PAGE(S) 2
 2. AMENDMENT/MODIFICATION NO. 3 3. EFFECTIVE DATE JUN 21 2000 4. REQUISITION/PURCHASE REQ. NO. See Block 12. 5. PROJECT NO. (If applicable) _____

6. ISSUED BY CODE _____ 7. ADMINISTERED BY (If other than Item 6) CODE _____
 National Aeronautics and Space Administration
 Langley Research Center
 Hampton, VA 23681-2199

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code)
 Mainthia Technologies Inc.
 17535 Rosbough Drive, Suite 200
 Corporate Center of Middleburg Hts
 Cleveland Ohio 44130

9A. AMENDMENT OF SOLICITATION NO. _____
 9B. DATED (SEE ITEM 11) _____
 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
 10B. DATED (SEE ITEM 13) 4/13/00

CODE _____ FACILITY CODE _____

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 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)
 N/A

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

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:
 D. OTHER Specify type of modification and authority)
 X Mutual Agreement

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.)

The purpose of this modification is to correct the instructions for invoicing fixed fee under the contract. As a result, the following change is made to the contract schedule:

EXECUTED BY ALL PARTIES

(continued)

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) HEMANT MAINTHIA, PRESIDENT 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) TRACY M. SPRUILL
 15B. CONTRACTOR/OFFEROR H. S. Mainthia 15C. DATE SIGNED 6/14/00 16B. UNITED STATES OF AMERICA BY Tracy M Spruill 16C. DATE SIGNED 4/21/00
 (Signature of person authorized to sign) (Signature of Contracting Officer)

FILE COPY

Paragraph 9. Invoices and Payments, (c) is deleted in its entirety and replaced with the following:

“ (c) Fixed Fee – Payments of fixed fee shall be made in monthly installments based upon the percentage of completion of work as determined by the Contracting Officer. Notwithstanding, any payments shall be subject to the withholding provisions of the clause of this contract entitled “Fixed Fee”. ”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CFPP Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Total		404,801	25,985	430,786

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE _____ PAGE 1 OF PAGE(S) 2

2. AMENDMENT/MODIFICATION NO. 4 3. EFFECTIVE DATE 20000710 4. REQUISITION/PURCHASE REQ. NO. See Block 12. 5. PROJECT NO. (If applicable) _____

6. ISSUED BY CODE _____ 7. ADMINISTERED BY (If other than Item 6) CODE _____

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-2199

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code)
Mainthia Technologies Inc.
17535 Rosbough Drive, Suite 200
Corporate Center of Middleburg Hts
Cleveland Ohio 44130

9A. AMENDMENT OF SOLICITATION NO. _____
9B. DATED (SEE ITEM 11) _____
10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
10B. DATED (SEE ITEM 13) 4/13/00

CODE _____ FACILITY CODE _____

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 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)
PR SCB 1033, JO R26126, obligate \$9,152(complete) (Task 4) sub =

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

() 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: _____

D. OTHER Specify type of modification and authority) _____

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

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

The purpose of this modification is to incrementally fund the contract cost and fixed fee in the amounts of \$8,688 and \$464, respectively pursuant to the Contract Funding Clause. The total allotment period remains September 31, 2000. Accordingly, the following change is made to the Contract Schedule:

(continued)

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) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
TIMOTHY P. STUBBS

15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 16B. UNITED STATES OF AMERICA 16C. DATE SIGNED
7. 10 00

(Signature of person authorized to sign) BY (Signature of Contracting Officer)

Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$413,489. This allotment covers the following estimated period of performance: April 13, 2000 through September 30, 2000.

(b) An additional amount of \$26,449 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CFPP Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Total		413,489	26,449	439,938

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE, 2. AMENDMENT/MODIFICATION NO. 5, 3. EFFECTIVE DATE 20000727, 4. REQUISITION/PURCHASE REQ. NO. See Block 12., 5. PROJECT NO. (If applicable)

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199, 7. ADMINISTERED BY (If other than Item 6)

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Mainthia Technologies Inc. 17535 Rosbough Drive, Suite 200 Corporate Center of Middleburg Hts Cleveland Ohio 44130, 9A. AMENDMENT OF SOLICITATION NO., 9B. DATED (SEE ITEM 11), 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077, 10B. DATED (SEE ITEM 13) 4/13/00

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 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) PR SCB 1035, JO R24471, obligate \$26,166(complete); PR SCB 1036, JO R24192, obligate \$13,260(complete)

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

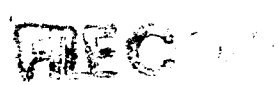
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH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

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purpose of this modification is to incrementally fund the contract cost and fixed fee in the amounts of \$36,862 and \$2,564, respectively pursuant to the Contract Funding Clause. The total allotment period remains September 31, 2000. Accordingly, the following change is made to the Contract Schedule:

(continued)

15A. NAME AND TITLE OF SIGNER, 15B. CONTRACTOR/OFFEROR, 15C. DATE SIGNED, 16A. NAME AND TITLE OF CONTRACTING OFFICER TIMOTHY F. STUBBS, 16B. UNITED STATES OF AMERICA, 16C. DATE SIGNED 2000 07 27



Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$450,351. This allotment covers the following estimated period of performance: April 13, 2000 through September 30, 2000.

(b) An additional amount of \$29,013 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CFPP Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Total		450,351	29,013	479,364

PR: SCB 1035, Task 4, Subtask 6, \$26,166

PR: SCB 1036, Task 4, Subtask 5, \$13,260

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE: _____ PAGE 1 OF 2 PAGE(S) 2

2. AMENDMENT/MODIFICATION NO. 6

3. EFFECTIVE DATE **AUG 14 2000**

4. REQUISITION/PURCHASE REQ. NO. See Block 12.

5. PROJECT NO. (If applicable) _____

6. ISSUED BY: National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-2199

7. ADMINISTERED BY (If other than Item 6) _____ CODE _____

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code)
Attn: Todd Lockhart
Mail Stop 429
Mainthia Technologies Inc.
NASA Langley Research Center
Hampton VA 23681

9A. AMENDMENT OF SOLICITATION NO. _____

9B. DATED (SEE ITEM 11) _____

10A. MODIFICATION OF CONTRACT/ORDER NO. **NAS1-00077**

10B. DATED (SEE ITEM 13) **4/13/00**

CODE _____ FACILITY CODE _____

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 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)

PR:SCB.1026; R26440; \$72,245; Complete; (Task 4) DEOBLIGATE

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

(4) 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.

X 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: _____

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.)

The purpose of this modification is to decrease the contract funding for cost and fixed fee in the amounts of \$68,150 and \$4,095, respectively pursuant to the Contract Funding clause. The total allotment period remains September 30, 2000. Accordingly, the following change is made to the Contract Schedule:

(continued)

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) **L. TODD LOCKHART, PROGRAM MANAGER**

15B. CONTRACTOR/OFFEROR *(Signature)*

15C. DATE SIGNED **8/14/00**

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) **TRACY M. SPRUILL**

16B. UNITED STATES OF AMERICA BY *(Signature)*

16C. DATE SIGNED **8/14/00**

FILE COPY

Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$382,201. This allotment covers the following estimated period of performance: April 13, 2000 through September 30, 2000.

(b) An additional amount of \$24,918 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Total		382,201	24,918	407,119

OMB Approval 2700-0042

A. AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGE(S) 1 2
2. AMENDMENT/MODIFICATION NO. 7	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO. See Block 12.	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (If other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR (No Street, County, State and ZIP Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681		(a)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
			10B. DATED (SEE ITEM 13) 4/13/00

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 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)

PR:SCB.1026; R26440; \$361; Complete; (Task 4) DEOBLIGATE

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

(4)	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:
	D. OTHER (Specify type of modification and authority):
X	Mutual Agreement

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.)

The purpose of this modification is to decrease the contract funding by \$361 pursuant to the Contract Funding clause. The total allotment period remains September 30, 2000. Accordingly, the following change is made to the Contract Schedule:

(continued)

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) L. TODD LOCKHART, PROGRAM MANAGER	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) TRACY M. SPRUILL
15B. CONTRACT/OFFEROR 	16B. UNITED STATES OF AMERICA BY
15C. DATE SIGNED 9/6/00	16C. DATE SIGNED 9/7/00

FILE COPY

Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$381,840. This allotment covers the following estimated period of performance: April 13, 2000 through September 30, 2000.

(b) An additional amount of \$24,918 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Total		381,840	24,918	406,758

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE		PAGE OF PAGE(S) 1 2
2. AMENDMENT/MODIFICATION NO. 8	3. EFFECTIVE DATE SEP 27 2000	4. REQUISITION/PURCHASE REQ. NO. See Block 12.
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		5. PROJECT NO. (If applicable) CODE
7. ADMINISTERED BY (If other than Item 6)		CODE

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681		(✓)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
			10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SC.1013; M3169; \$14,500; (Task 3) Complete

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

(✓)	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.
X	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:
	D. OTHER Specify type of modification and authority Mutual Agreement

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to increase the contract funding by \$14,500 pursuant to the Contract Funding clause. The total allotment period is October 13, 2000. Accordingly, the following change is made to the Contract Schedule:

(continued)

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) SANDRA M. GLENN, CONTRACTING OFFICER		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SANDRA M. GLENN, CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Sandra Glenn</i> (Signature of Contracting Officer)	16C. DATE SIGNED 9/27/00

FILE COPY

Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

- (a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$395,325. This allotment covers the following estimated period of performance: April 13, 2000 through October 13, 2000.
- (b) An additional amount of \$25,933 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Total		395,325	25,933	421,258

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGE(S) 1 2
2. AMENDMENT/MODIFICATION NO. 9	3. EFFECTIVE DATE NOV 16 2000	4. REQUISITION/PURCHASE REQ. NO. See Block 12.	5. PROJECT NO. (if applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (if other than item 6)	CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681			(✓) X	9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077 10B. DATED (SEE ITEM 13) 4/13/00
CODE	FACILITY CODE			

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 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)
PR: SCA.1037; M4186; \$26,168; (Task 2) Complete; PR:SC.1016; M3169; \$120,098 (Task 3) complete; PR:SCA.1033; M4186; \$95,813 (Task 2) and \$51,947 (Task 1) complete

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

(✓) 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:



D. OTHER Specify type of modification and authority)
X Mutual Agreement

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.)
The purposes of this modification are to increase the contract funding by \$294,026 pursuant to the Contract Funding clause and incorporate the clause at 1852.204-76. The total allotment period for funding is April 12, 2001. Accordingly, the following changes are made to the Contract Schedule:

(continued)

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) L. TODD LOCKHART, PROGRAM MANAGER	15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 11/14/00	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SANDRA M. GLENN, CONTRACTING OFFICER	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 11/16/00
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FILE COPY

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$674,650. This allotment covers the following estimated period of performance: April 13, 2000 through April 12, 2001.

(b) An additional amount of \$40,634 is obligated under this contract for payment of fee.”

II. The following clause is hereby added to Article 29, Paragraph B, NASA FAR Supplement Clauses Incorporated by Reference:

1852.204-76 Security Requirements for Unclassified Technology Information Resources (July 2000)

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Total		674,650	40,634	715,284

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE 1 OF 2 PAGE(S)
2. AMENDMENT/MODIFICATION NO. 10	3. EFFECTIVE DATE DEC 20 2000	4. REQUISITION/PURCHASE REQ. NO. See Block 12.	5. PROJECT NO. (if applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (if other than item 6)	
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681		(✓)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
			10B. DATED (SEE ITEM 13) 4/13/00
CODE	FACILITY CODE		

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 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)
PR: SCB.1051; R27394; obligate \$71,000; (Task 4) Complete

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

(✓)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to increase the contract funding by \$71,000 pursuant to the Contract Funding clause. The total allotment period for funding is April 12, 2001. Accordingly, the following change is made to the Contract Schedule:

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SANDRA M. GLENN, CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Sandra Glenn (Signature of Contracting Officer)	16C. DATE SIGNED 12/20/00
(Signature of person authorized to sign)			

FILE COPY

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$740,680. This allotment covers the following estimated period of performance: April 13, 2000 through April 12, 2001.

(b) An additional amount of \$45,604 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod. 10		66,030	4,970	71,000
Total		\$740,680	\$45,604	\$786,284

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE		PAGE OF PAGE(S)
		1 2
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.
11	FEB 6 2001	See Block 12.
6. ISSUED BY		7. ADMINISTERED BY (If other than Item 6)
National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		CODE

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code)		9A. AMENDMENT OF SOLICITATION NO.
Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681		
9B. DATED (SEE ITEM 11)		
10A. MODIFICATION OF CONTRACT/ORDER NO.		
X		NAS1-00077
10B. DATED (SEE ITEM 13)		4/13/00
CODE	FACILITY CODE	

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 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)
PR: OBAA.1028; R24192; obligate \$9,094 (Task 4) Complete and PR: SCB.1055, M4292; obligate \$5,642 (Task 4) Complete

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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to increase the contract funding by \$15,245 pursuant to the Contract Funding clause. The total allotment period for funding is April 12, 2001. Accordingly, the following change is made to the Contract Schedule:

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
	SANDRA M. GLENN, CONTRACTING OFFICER
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
(Signature of person authorized to sign)	BY <u>Sandra Glenn</u> (Signature of Contracting Officer)
15C. DATE SIGNED	16C. DATE SIGNED
	2/6/01

30-105
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FILE COPY

I. Paragraph 3, Contract Funding, is restated as follows:

"3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is ~~\$769,256~~ ^{754,459}. This allotment covers the following estimated period of performance: April 13, 2000 through April 12, 2001.

(b) An additional amount of \$46,561 is obligated under this contract for payment of fee."

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod. 10		66,030	4,970	71,000
Mod. 11		14,288 13,779	957	15,245 14,736
Total		\$740,680	\$45,604	\$786,284
		754,459	46,561	801,020

14,736 credited by mod 12

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE		PAGE OF PAGE(S) 1 2
2. AMENDMENT/MODIFICATION NO. 12	3. EFFECTIVE DATE FEB 7 2001	4. REQUISITION/PURCHASE REQ. NO. See Block 12.
5. PROJECT NO. (if applicable)		6. ISSUED BY

6 ISSUED BY
National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-2199

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code)
Attn: Todd Lockhart
Mail Stop 429
Mainthia Technologies Inc.
NASA Langley Research Center
Hampton VA 23681

(✓)	9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED (SEE ITEM 11)
X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
	10B. DATED (SEE ITEM 13) 4/13/00

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 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)
N/A

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

(✓)	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.
X	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:
	D. OTHER Specify type of modification and authority

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to correct Modification 11 which cited an incorrect increase to the contract funding of \$15,245 pursuant to the Contract Funding clause. The correct amount is \$14,736. Accordingly, the following change is made to the Contract Schedule:

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SANDRA M. GLENN, CONTRACTING OFFICER
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY <u>Sandra Glenn</u> (Signature of Contracting Officer)
15C. DATE SIGNED	16C. DATE SIGNED 2/7/01

FILE COPY

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$754,459. This allotment covers the following estimated period of performance: April 13, 2000 through April 12, 2001.

(b) An additional amount of \$46,561 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod. 10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod. 12		0	0	0
Total		\$754,459	\$46,561	\$801,020

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGE(S)
 1 2

2. AMENDMENT/MODIFICATION NO. 13
 3. EFFECTIVE DATE March 7, 2001
 4. REQUISITION/PURCHASE REQ. NO. SCB.1059
 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
**National Aeronautics and Space Administration
 Langley Research Center
 Hampton, VA 23681-2199**
 7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code)
 Attn: Todd Lockhart
 Mail Stop 429
 Mainthia Technologies Inc.
 NASA Langley Research Center
 Hampton VA 23681
 9A. AMENDMENT OF SOLICITATION NO.
 9B. DATED (SEE ITEM 11)
 10A. MODIFICATION OF CONTRACT/ORDER NO.
 NAS1-00077
 10B. DATED (SEE ITEM 13)
 4/13/00
 CODE FACILITY CODE

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 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)
 PR: SCB.1059; M4292, obligate \$6,240 (Task 4, Subtask 10) COMPLETE

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

() 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.
 X 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:
 D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$6,240 pursuant to the Contract Funding clause. The total allotment period for funding is April 06, 2001. Accordingly, the following change is made to the Contract Schedule:

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SANDRA M. GLENN, CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Sandra Glenn</i> (Signature of Contracting Officer)	16C. DATE SIGNED 3/6/01
(Signature of person authorized to sign)			

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$760,257. This allotment covers the following estimated period of performance: March 7, 2001 through April 10, 2001.

(b) An additional amount of \$46,967 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod. 10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod. 12		0	0	0
Mod. 13		5,798	406	6,240
Total		\$760,257	\$46,967	\$807,260

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGE(S)
	1 2

2. AMENDMENT/MODIFICATION NO. 14	3. EFFECTIVE DATE March 20, 2001	4. REQUISITION/PURCHASE REQ. NO. SCB.1057	5. PROJECT NO. (If applicable)
-------------------------------------	-------------------------------------	--	--------------------------------

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(✓)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SCB.1057; R26785, obligate \$15,000 COMPLETE (Task 4, Subtask 7)

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

(✓)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to increase the contract funding by \$15,000 pursuant to the Contract Funding clause. The total allotment period for funding is April 12, 2001. Accordingly, the following change is made to the Contract Schedule:

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)
	16C. DATE SIGNED 3-20-01

FILE COPY

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$774,207. This allotment covers the following estimated period of performance: April 13, 2001 through September 30, 2001.

(b) An additional amount of \$48,017 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,798	406	6,240
Mod 14		13,950	1,050	15,000
Total		\$774,207	\$48,017	\$822,260

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE 1	OF 2	PAGE(S) 2
2. AMENDMENT/MODIFICATION NO. 15	3. EFFECTIVE DATE April 3, 2001	4. REQUISITION/PURCHASE REQ. NO. See Block 12	5. PROJECT NO. (If applicable)

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
--	---

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(✓)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
N/A

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

(✓)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to correct Modification 13 and 14. Modification 13 cited an incorrect Cost Funding amount of \$5,798 pursuant to the Contract Funding clause. The correct amount is \$5,834. As a result, the Total Cost Funding Amount on Modification 13 and 14 was incorrect. Also, on Modification 13 the total allotment period for funding on the SF30 cover page reflected April 12, 2001, and page 2 of the modification reflected September 30, 2001 which is the correct date. Accordingly, the following change is made to the Contract Schedule:

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED
(Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY <i>Maxie G. Batina</i> (Signature of Contracting Officer)
	16C. DATE SIGNED 4-3-01

FILE COPY

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$774,243. This allotment covers the following estimated period of performance: April 13, 2001 through September 30, 2001.

(b) An additional amount of \$48,017 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Total		\$774,243	\$48,017	\$822,260

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE OF PAGE(S)	
					1	2
2. AMENDMENT/MODIFICATION NO. <p style="text-align: center;">16</p>		3. EFFECTIVE DATE <p style="text-align: center;">April 4, 2001</p>		4. REQUISITION/PURCHASE REQ. NO. <p style="text-align: center;">See Block 12</p>		5. PROJECT NO. (If applicable)
6. ISSUED BY <p>National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199</p>			7. ADMINISTERED BY (If other than Item 6)			CODE

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681		(✓)	9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. <p style="text-align: center;">NAS1-00077</p>	
			10B. DATED (SEE ITEM 13) <p style="text-align: center;">4/13/00</p>	
CODE		FACILITY CODE		

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 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)

PR: SCB.1062; R26915, obligate \$36,292 COMPLETE (Task 4, Subtask 11), PR: SCB.1061, M4019, obligate \$50,003 PARTIAL, (Task 4, Subtask 12), PR: SCB.1061, M4019, obligate \$24,955 COMPLETE (Task4, Subtask 13)

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

(✓)	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.
X	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(c).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$111,250 pursuant to the Contract Funding clause. The total allotment period for funding is September 30, 2001. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		MAXINE G. BATINA, CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)	4-4-01

FILE COPY

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$878,257. This allotment covers the following estimated period of performance: April 04, 2001 through September 30, 2001.

(b) An additional amount of \$55,253 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Total		\$878,257	\$55,253	\$933,510

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGE(S) 1 2
2. AMENDMENT/MODIFICATION NO. 17	3. EFFECTIVE DATE April 12, 2001	4. REQUISITION/PURCHASE REQ. NO. See Block 12	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (If other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681		(<input checked="" type="checkbox"/>)	9A. AMENDMENT OF SOLICITATION NO.
CODE		FACILITY CODE	9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
			10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SCA.1041, OC: 2530, JO: M4186, Obligate \$39,000 COMPLETE (Task 2, M07) PR: SC.1019; OC: 2530, JO: M3169, Obligate \$101,000 COMPLETE (Task 3, M03), PR: SCA.1043, OC: 2556, JO: M3158, Obligate \$79,852 COMPLETE (Task 1, M01)

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.
X	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:
	D. OTHER Specify type of modification and authority)

E- IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to increase the contract funding by \$219,852 pursuant to the Contract Funding clause. The total allotment period for funding is October 12, 2001. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Maxine G. Batina</i> (Signature of Contracting Officer)	16C. DATE SIGNED 4-12-01
(Signature of person authorized to sign)			

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,084,056. This allotment covers the following estimated period of performance: April 13, 2001, through October 12, 2001.

(b) An additional amount of \$69,306 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Total		\$1,084,056	\$69,306	\$1,153,362

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGE(S) 1 2

2. AMENDMENT/MODIFICATION NO. 18 3. EFFECTIVE DATE May 31, 2001 4. REQUISITION/PURCHASE REQ. NO. SC.1026 5. PROJECT NO. (If applicable)

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199 7. ADMINISTERED BY (If other than Item 6) 8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681 9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 9A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077 9B. DATED (SEE ITEM 13) 4/13/00

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 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) PR: SC.1026, OC: 2512, JO: M3169, Obligate \$5,067.00 (COMPLETE) (Task 3, M04)

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

(4) 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. X 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: D. OTHER Specify type of modification and authority)

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purpose of this modification is to increase the contract funding by \$5,067 pursuant to the Contract Funding clause. The total allotment period for funding is October 12, 2001. Accordingly, the following change is made to the Contract Schedule.

(continued)

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) 15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign) 15C. DATE SIGNED 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER 16B. UNITED STATES OF AMERICA BY Maxine G. Batina (Signature of Contracting Officer) 16C. DATE SIGNED 5-31-2001

FILE COPY FILE COPY

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,088,816. This allotment covers the following estimated period of performance: April 13, 2001, through October 12, 2001.

(b) An additional amount of \$69,613 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Total		\$1,088,816	\$69,613	\$1,158,429

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGE(S) 1 2
2. AMENDMENT/MODIFICATION NO. 19	3. EFFECTIVE DATE June 13, 2001	4. REQUISITION/PURCHASE REQ. NO. SCB.1066/SCB.1067	5. PROJECT NO. (If applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (If other than Item 6)		

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00
CODE	FACILITY CODE	

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 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)
PR: SCB.1066, OC: 2512, JO: M4292, Obligate \$1,560 and OC: 2512, JO: R27397, Obligate \$20,000 (COMPLETE) (Task 4, M13)
PR: SCB.1067, OC: 2512, JO: R22413, Obligate \$49,996 (COMPLETE) (Task 4, M13)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. **IMPORTANT:** Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$71,556 pursuant to the Contract Funding clause. The total allotment period for funding is October 12, 2001. Accordingly, the following change is made to the Contract Schedule.

(continued)

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)	16C. DATE SIGNED 6-13-2001
(Signature of person authorized to sign)			

FILE COPY

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,156,339. This allotment covers the following estimated period of performance: April 13, 2001, through October 12, 2001.

(b) An additional amount of \$73,646 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Total		\$1,156,339	\$73,646	\$1,229,985

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE: _____ PAGE 1 OF 2 PAGES

2. AMENDMENT/MODIFICATION NO. 20 3. EFFECTIVE DATE June 28, 2001 4. REQUISITION/PURCHASE REQ. NO. SCB.1068 5. PROJECT NO. (If applicable) _____

6. ISSUED BY CODE _____ 7. ADMINISTERED BY (If other than Item 6) CODE _____

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-2199

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code)

Attn: Todd Lockhart
Mail Stop 429
Mainthia Technologies Inc.
NASA Langley Research Center
Hampton VA 23681

9A. AMENDMENT OF SOLICITATION NO _____

9B. DATED (SEE ITEM 11) _____

10A. MODIFICATION OF CONTRACT/ORDER NO NASI-00077

10B. DATED (SEE ITEM 13) 4/13/00

CODE _____ FACILITY CODE _____

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 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)

PR: SCB.1068, OC: 2530, JO: M3971, Obligate \$11,000 and OC: 2530, JO: M4186, Obligate \$20,300, and OC: 2530, JO: M4292, Obligate \$51.371 (COMPLETE) (Task 4, M14)

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

(4) 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.

X 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:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$82,671 pursuant to the Contract Funding clause. The total allotment period for funding is October 12, 2001. Accordingly, the following change is made to the Contract Schedule.

(continued)

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) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 16B. UNITED STATES OF AMERICA 16C. DATE SIGNED

(Signature of person authorized to sign) BY Maxine G. Batina (Signature of Contracting Officer) 6-28-01

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,234,848. This allotment covers the following estimated period of performance: April 13, 2001, through October 12, 2001.

(b) An additional amount of \$77,808 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Total		\$1,234,848	\$77,808	\$1,312,656

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGE(S)
				1 2
2. AMENDMENT/MODIFICATION NO. <p style="text-align: center;">21</p>		3. EFFECTIVE DATE <p style="text-align: center;">See Block 16C</p>		4. REQUISITION/PURCHASE REQ. NO. <p style="text-align: center;">SCB.1062</p>
6. ISSUED BY <p style="text-align: center;">National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199</p>		7. ADMINISTERED BY (If other than Item 6)		5. PROJECT NO. (If applicable)

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681		(4)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. <p style="text-align: center;">NAS1-00077</p>
			10B. DATED (SEE ITEM 13) <p style="text-align: center;">4/13/00</p>
CODE	FACILITY CODE		

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 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)
 PR: SCB.1062, OC: 2530, JO: R26915, Deobligate \$24,292 COMPLETE (Task 4, Subtask 4.11)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)


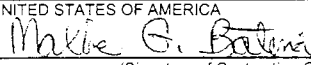
E. IMPORTANT: Contractor is not, is required to sign this document and return 003 copies to the issuing office.

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

The purpose of this modification is to decrease the contract funding for cost and fixed fee in the amounts of \$22,592 and \$1,700, respectively pursuant to the Contract Funding clause. The total allotment period remains October 12, 2001. Accordingly, the following change is made to the Contract Schedule.

(continued)

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) <p style="text-align: center;">L. TODD LOCKHART, PROGRAM MANAGER</p>		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <p style="text-align: center;">MAXINE G. BATINA, CONTRACTING OFFICER</p>	
15B. CONTRACTOR/OFFEROR  <p style="text-align: center;">(Signature of person authorized to sign)</p>		16B. UNITED STATES OF AMERICA BY  <p style="text-align: center;">(Signature of Contracting Officer)</p>	
15C. DATE SIGNED <p style="text-align: center;">9/5/01</p>		16C. DATE SIGNED <p style="text-align: center;">9-7-2001</p>	

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,212,256. This allotment covers the following estimated period of performance: April 13, 2001, through October 12, 2001.

(b) An additional amount of \$76,108 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Total		\$1,212,256	\$76,108	\$1,288,364

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE 1	OF 2	PAGE(S) 2
2. AMENDMENT/MODIFICATION NO. <p style="text-align: center;">22</p>		3. EFFECTIVE DATE <p style="text-align: center;">See Block 16C</p>		4. REQUISITION/PURCHASE REQ. NO. <p style="text-align: center;">SCA.1060/SC.1031</p>		5. PROJECT NO. (If applicable)	
6. ISSUED BY <p>National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199</p>				7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) <p>Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681</p>				(4)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. <p style="text-align: center;">NAS1-00077</p>	
						10B. DATED (SEE ITEM 13) <p style="text-align: center;">4/13/00</p>	
CODE		FACILITY CODE					

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 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)

PR: SCA.1060, OC: 2550X, JO: M3158, Obligate \$1,164 (Partial) Task 1; PR: SCA.1060, OC 2550X, JO: M4186, Obligate \$16,043 (Partial) (Task 2); PR: SC.1031, OC: 2530, JO: M3169, Obligate \$17,719 (Partial) (Task 3)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. **IMPORTANT:** Contractor is not, is required to sign this document and return 003 copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$34,926 pursuant to the Contract Funding clause. The total allotment period for funding is November 30, 2001. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <p style="text-align: center;">MAXINE G. BATINA, CONTRACTING OFFICER</p>	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> <small>(Signature of Contracting Officer)</small>	16C. DATE SIGNED <p style="text-align: center;">11-6-01</p>
<small>(Signature of person authorized to sign)</small>			

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,244,826. This allotment covers the following estimated period of performance: April 13, 2001, through November 30, 2001.

(b) An additional amount of \$78,464 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750	2,356	34,926
Total		\$1,244,826	\$78,464	\$1,323,290

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE: PAGE 1 OF 2 PAGE(S)
 2. AMENDMENT/MODIFICATION NO. 23
 3. EFFECTIVE DATE See Block 16C
 4. REQUISITION/PURCHASE REQ. NO. SCA.1060/SC.1031
 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
 National Aeronautics and Space Administration
 Langley Research Center
 Hampton, VA 23681-2199
 7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code)
 Attn: Todd Lockhart
 Mail Stop 429
 Mainthia Technologies Inc.
 NASA Langley Research Center
 Hampton VA 23681
 (4)
 9A. AMENDMENT OF SOLICITATION NO.
 9B. DATED (SEE ITEM 11)
 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
 10B. DATED (SEE ITEM 13) 4/13/00
 CODE FACILITY CODE

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 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)
PR: SCA.1060, OC: 2550X, JO: M3158, Obligate \$116,836 (Complete) Task 1; PR: SCA.1060, OC 2550X, JO: M4186, Obligate \$171,957 (Complete) (Task 2); PR: SC.1031, OC: 2530, JO: M3169, Obligate \$199,372 (Complete) (Task 3)

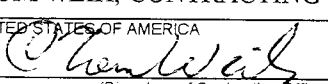
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(4) 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.
 X 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:
 D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return __ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
 The purpose of this modification is to increase the contract funding by \$488,165 pursuant to the Contract Funding clause. The total allotment period for funding is October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)
 15B. CONTRACTOR/OFFEROR
 15C. DATE SIGNED
 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
 C. TOM WEIH, CONTRACTING OFFICER
 16B. UNITED STATES OF AMERICA
 BY  (Signature of Contracting Officer)
 16C. DATE SIGNED 8/12/12/01

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,699,816. This allotment covers the following estimated period of performance: April 13, 2001, through October 15, 2002.

(b) An additional amount of \$111,639 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,750	2,356	34,926
Mod 23		454,990	33,175	488,165
Total		\$1,699,816	\$111,639	\$1,811,455

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGE(S)
	1 2

2. AMENDMENT/MODIFICATION NO. 24	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. SCA.1064	5. PROJECT NO. (If applicable)
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6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SCA.1064, OC: 2530, JO: C295905, Obligate \$10,155 (Complete) (Task 2, Subtask 28))

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return __ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to increase the contract funding by \$10,155 pursuant to the Contract Funding clause. The total allotment period for funding is October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)	16C. DATE SIGNED 12-27-01

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,709,310. This allotment covers the following estimated period of performance: April 13, 2001, through October 15, 2002.

(b) An additional amount of \$112,300 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Total		\$1,709,310	\$112,300	\$1,821,610

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE 1 OF 2 PAGE(S)
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2. AMENDMENT/MODIFICATION NO. 25	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. SCB.1073	5. PROJECT NO. (If applicable)
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6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)

PR: SCB.1073, OC: 2530, JO: M4292, Obligate \$22,989 (Complete) (Task 4, Subtask 17)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return __ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$22,989, pursuant to the Contract Funding clause. The total allotment period for funding is October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)
15C. DATE SIGNED	16C. DATE SIGNED 1-30-02

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,730,804. This allotment covers the following estimated period of performance: April 13, 2001, through October 15, 2002.

(b) An additional amount of \$113,795 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
		21,494	1,495	22,989
Total		\$1,730,804	\$113,795	\$1,844,599

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		CONTRACT ID CODE	PAGE 1 OF 2
2. AMENDMENT/MODIFICATION NO. <p style="text-align: center;">26</p>	3. EFFECTIVE DATE <p style="text-align: center;">See Block 16C</p>	4. REQUISITION/PURCHASE REQ. NO. <p style="text-align: center;">SCB.1072/SCB.1074</p>	5. PROJECT NO. (If applicable)
6. ISSUED BY <p>National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199</p>		7. ADMINISTERED BY (If other than Item 6)	

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. <p style="text-align: center;">NAS1-00077</p>
CODE	FACILITY CODE	10B. DATED (SEE ITEM 13) <p style="text-align: center;">4/13/00</p>

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 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)
 PR: SCB.1072, OC: 2544, JO: R26785, Obligate \$15,000.00 (Complete), PR: SCB.1074, OC: 2544, JO: R28918, \$54,724.00 (Complete) (Task 4, Subtask 7)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. **IMPORTANT:** Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
 The purpose of this modification is to increase the contract funding by \$69,724, pursuant to the Contract Funding clause. The total allotment period for funding is October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <p style="text-align: center;">MAXINE G. BATINA, CONTRACTING OFFICER</p>	
15B. CONTRACTOR/OFFEROR <p style="text-align: center;">(Signature of person authorized to sign)</p>	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> <p style="text-align: center;">(Signature of Contracting Officer)</p>	16C. DATE SIGNED <p style="text-align: center;">1-31-02</p>

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,795,647. This allotment covers the following estimated period of performance: April 13, 2001, through October 15, 2002.

(b) An additional amount of \$118,676 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Total		\$1,795,647	\$118,676	\$1,914,323

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CO.	CT ID CODE	PAGE OF PAGE(S)
		1 2

2. AMENDMENT/MODIFICATION NO. 27	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. SCB.1068	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (If other than Item 6)	

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SCB.1068, OC: 2530, JO: M4292, Deobligate \$34,102 (Complete) (Task 4.16.1)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. **IMPORTANT:** Contractor is not, is required to sign this document and return __ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to decrease contract funding by \$34,102, pursuant to the Contract Funding clause. The total allotment period for funding is October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)	16C. DATE SIGNED 1-31-02
(Signature of person authorized to sign)			

FILE COPY

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,763,932. This allotment covers the following estimated period of performance: April 13, 2001, through October 15, 2002.

(b) An additional amount of \$116,289 is obligated under this contract for payment of fee.”

CONTRACT TABULATION				
	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Total		\$1,763,932	\$116,289	\$1,880,221

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGE(S)	
				1	3
2. AMENDMENT/MODIFICATION NO. <p style="text-align: center;">28</p>		3. EFFECTIVE DATE <p style="text-align: center;">See Block 16C</p>		4. REQUISITION/PURCHASE REQ. NO. <p style="text-align: center;">See Page 2</p>	
6. ISSUED BY <p>National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199</p>		7. ADMINISTERED BY (If other than Item 6)		5. PROJECT NO. (If applicable)	
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) <p>Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681</p>		(4)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. <p style="text-align: center;">NAS1-00077</p>	
				10B. DATED (SEE ITEM 13) <p style="text-align: center;">4/13/00</p>	
CODE		FACILITY CODE			

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 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 Page 2

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

(4)	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) <p style="text-align: center;">Mutual Agreement</p>

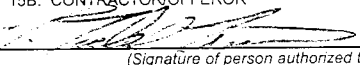
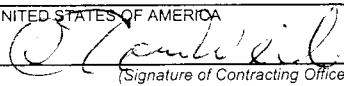
E. **IMPORTANT:** Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purposes of this modification are to deobligate the contract funding by \$38,788, pursuant to the Contract Funding clause, and to correct an accounting error from Mod 27. The total allotment period for funding remains through October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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) <p style="text-align: center;">L. TODD LOCKHART, PROGRAM MANAGER</p>		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <p style="text-align: center;">C. TOM WEIH, CONTRACTING OFFICER</p>	
15B. CONTRACTOR/OFFEROR  <small>(Signature of person authorized to sign)</small>		16B. UNITED STATES OF AMERICA BY  <small>(Signature of Contracting Officer)</small>	
15C. DATE SIGNED <p style="text-align: center;">2/7/02</p>		16C. DATE SIGNED <p style="text-align: center;">2/15/02</p>	

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,727,353. This allotment covers the following estimated period of performance: April 13, 2001, through October 15, 2002.

(b) An additional amount of \$114,080 is obligated under this contract for payment of fee.”

Accounting and Appropriation Data

<u>PR Number</u>	<u>Job Order Number</u>	<u>Amount</u>	<u>Comments</u>
SCB.1028	R26498	(\$28,412)	Deobligate
SCB.1033	R26126	(\$4,057)	Deobligate
SCB.1036	R24192	(\$295)	Deobligate
SCB.1035	R24471	(\$1,213)	Deobligate
OBAA.1028	R24192	(\$2,281)	Deobligate
SCB.1059	M4292	(\$1,843)	Deobligate
SCB.1062	R26915	(\$687)	Deobligate
SCB.1068	M4292	\$20,300	Mod 27 Correction
SCB.1068	M4186	(\$20,300)	Mod 27 Correction
		Total: (\$38,788)	

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240

Mod 14	13,950	1,050	15,000
Mod 15	0	0	0
Mod 16	104,014	7,236	111,250
Mod 17	205,799	14,053	219,852
Mod 18	4,760	307	5,067
Mod19	67,523	4,033	71,556
Mod 20	78,509	4,162	82,671
Mod 21	(22,592)	(1,700)	(24,292)
Mod 22	32,750 32,570	2,356	34,926
Mod 23	454,990	33,175	488,165
Mod 24	9,494	661	10,155
Mod 25	21,494	1,495	22,989
Mod 26	64,843	4,881	69,724
Mod 27	(31,715)	(2,387)	(34,102)
Mod 28	(36,579)	(2,209)	(38,788)
Total	\$1,727,353	\$114,080	\$1,841,433

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO. 29	3. EFFECTIVE DATE SCB.1076	4. REQUISITION/PURCHASE REQ. NO. SCB.1076	5. PROJECT NO. (If applicable)
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6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SCB.1076, OC: 2530, JO: R28942, Obligate \$23,781 (Complete) (Extend Subtasks 4.12/4.13)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to increase the contract funding by \$23,781, pursuant to the Contract Funding clause. The total allotment period for funding remains through October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)
15C. DATE SIGNED	16C. DATE SIGNED 2-8-2002

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,749,469. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2002.

(b) An additional amount of \$115,745 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Total		\$1,749,469	\$115,745	\$1,865,214

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE 1 OF 2 PAGE(S)
2. AMENDMENT/MODIFICATION NO. 30	3. EFFECTIVE DATE 02/12/2002
4. REQUISITION/PURCHASE REQ. NO. SC.1035	5. PROJECT NO. (If applicable)

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SC.1035, OC: 2566, JO: M1779, Obligate \$645 (Complete) (Task 3)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to increase the contract funding by \$645, pursuant to the Contract Funding clause. The total allotment period for funding remains through October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED
(Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)
	16C. DATE SIGNED 2-12-2002

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,750,072. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2002.

(b) An additional amount of \$115,787 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 ^{32,570}	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Total		\$1,750,072	\$115,787	\$1,865,859

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE 1 OF 2 PAGE(S)
2. AMENDMENT/MODIFICATION NO. 31	3. EFFECTIVE DATE 03/05/2002
4. REQUISITION/PURCHASE REQ. NO. SCB.1078	5. PROJECT NO. (If applicable)

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SCB.1078, OC: 2529, JO: M4292, Obligate \$13,744 (Complete) (Task 4)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to increase the contract funding by \$13,744, pursuant to the Contract Funding clause. The total allotment period for funding remains through October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY <u>Maibe G. Batina</u> (Signature of Contracting Officer)	16C. DATE SIGNED 3-5-02

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,762,922. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2002.

(b) An additional amount of \$116,681 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 ^{32,570}	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Total		\$1,762,922	\$116,681	\$1,879,603

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			I. CONTRACT ID CODE	PAGE OF PAGE(S) 1 2
2. AMENDMENT/MODIFICATION NO. 32	3. EFFECTIVE DATE 03/11/2002	4. REQUISITION/PURCHASE REQ. NO. SCB.1079	5. PROJECT NO. (If applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (If other than Item 6)		
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681		(4)	9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077	
			10B. DATED (SEE ITEM 13) 4/13/00	
CODE	FACILITY CODE			

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 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)

PR: SCB.1079, OC: 2567, JO: M4292, Obligate \$4,375 (Complete) (Task 4)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$4,375, pursuant to the Contract Funding clause. The total allotment period for funding remains through October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		MAXINE G. BATINA, CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)	3-11-02

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,767,012. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2002.

(b) An additional amount of \$116,966 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Total		\$1,767,012	\$116,966	\$1,883,978

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGE(S)	1	3
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2. AMENDMENT/MODIFICATION NO. <p style="text-align: center;">33</p>	3. EFFECTIVE DATE <p style="text-align: center;">05/15/2002</p>	4. REQUISITION/PURCHASE REQ. NO. <p style="text-align: center;">SCB.1083</p>	5. PROJECT NO. (If applicable)
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6. ISSUED BY <p>National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199</p>	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) <p>Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681</p>	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. <p style="text-align: center;">NAS1-00077</p>
		10B. DATED (SEE ITEM 13) <p style="text-align: center;">4/13/00</p>

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 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)
PR: SCB.1083, OC: 2530, JO: M4292, Obligate \$11,099 (Complete) (Task 4)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to increase the contract funding by \$11,099, pursuant to the Contract Funding clause. The total allotment period for funding remains through October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <p style="text-align: center;">MAXINE G. BATINA, CONTRACTING OFFICER</p>	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> <small>(Signature of Contracting Officer)</small>
<small>(Signature of person authorized to sign)</small>		16C. DATE SIGNED <p style="text-align: center;">5-15-2002</p>

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,777,389. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2002.

(b) An additional amount of \$117,688 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Total		\$1,777,389	\$117,688	\$1,895,077

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGE(S) 1 3	
2. AMENDMENT/MODIFICATION NO. 34		3. EFFECTIVE DATE 07/18/2002		4. REQUISITION/PURCHASE REQ. NO. SCB.1086/SC.1042		5. PROJECT NO. (If applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199				7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681				(4)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077	
						10B. DATED (SEE ITEM 13) 4/13/00	
CODE				FACILITY CODE			

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 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)
 PR: SCB.1086, OC: 2530, JO: M4292, Obligate \$21,631 (Complete) (Task 4)
 PR: SC.1042, OC: 2530, JO: M3169, Obligate \$20,000 (Complete) (Task 3)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. **IMPORTANT:** Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$41,631, pursuant to the Contract Funding clause. The total allotment period for funding remains through October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)	16C. DATE SIGNED 7-18-2002
(Signature of person authorized to sign)			

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,816,313. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2002.

(b) An additional amount of \$120,395 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Total		\$1,816,313	\$120,395	\$1,936,708

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO. 35		3. EFFECTIVE DATE 07/26/2002	4. REQUISITION/PURCHASE REQ. NO. SCB.1088	5. PROJECT NO. (If applicable)
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6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SCB.1088, OC: 2530, JO: M4292, Obligate \$2,378 (Complete) (Task 4)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. **IMPORTANT:** Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$2,378, pursuant to the Contract Funding clause. The total allotment period for funding remains through October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Maxine G. Batina (Signature of Contracting Officer)	16C. DATE SIGNED 7-26-2002

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,818,536. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2002.

(b) An additional amount of \$120,550 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Mod 35		2,223	155	2,378
Total		\$1,818,536	\$120,550	\$1,939,086

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE		PAGE 1 OF 3 PAGE(S)	
2. AMENDMENT/MODIFICATION NO. 36	3. EFFECTIVE DATE 08/05/2002	4. REQUISITION/PURCHASE REQ. NO. SCB.1089	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (If other than Item 6)	

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00
CODE	FACILITY CODE	

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 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)
PR: SCB.1089, OC: 2530, JO: M4292, Obligate \$4,982 (Complete) (Task 4)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$4,982, pursuant to the Contract Funding clause. The total allotment period for funding remains through October 15, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)	16C. DATE SIGNED 8-5-2002

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,823,194. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2002.

(b) An additional amount of \$120,874 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Mod 35		2,223	155	2,378
Mod 36		4,658	324	4,982
Total		\$1,823,194	\$120,874	\$1,944,068

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO. 37		3. EFFECTIVE DATE 10/30/2002	4. REQUISITION/PURCHASE REQ. NO. SCA.1086/SCA.1085/SC.1043	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (If other than Item 6)		

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR: SCA.1086, OC: 2530, JO: M3158, Obligate \$6,555 (Complete) (Task 1)
PR: SCA.1085, OC: 2530, JO: M4186, Obligate \$16,728 (Complete) (Task 2)
PR: SC.1043, OC: 2530, JO: M3169, Obligate \$8,833 (Complete) (Task 3)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return __ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$32,116, pursuant to the Contract Funding clause. The total allotment period for funding remains through November 22, 2002. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) MAXINE G. BATINA, CONTRACTING OFFICER
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA BY <u>Maxine G. Batina</u> (Signature of Contracting Officer)
15C. DATE SIGNED	16C. DATE SIGNED 10-30-2002

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$1,853,106. This allotment covers the following estimated period of performance: April 13, 2001 through November 22, 2002.

(b) An additional amount of \$123,078 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Mod 35		2,223	155	2,378
Mod 36		4,658	324	4,982
Mod 37		29,912	2,204	32,116
Total		\$1,853,106	\$123,078	\$1,976,184

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE _____ PAGE 1 OF 3 PAGE(S) 3

2. AMENDMENT/MODIFICATION NO. 38 3. EFFECTIVE DATE See Block 16C 4. REQUISITION/PURCHASE REQ. NO. See Block 12 5. PROJECT NO. (If applicable) _____

6. ISSUED BY CODE _____ 7. ADMINISTERED BY (If other than Item 6) CODE _____

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-2199

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code)

Attn: Todd Lockhart
Mail Stop 429
Mainthia Technologies Inc.
NASA Langley Research Center
Hampton VA 23681

(4) 9A. AMENDMENT OF SOLICITATION NO. _____

9B. DATED (SEE ITEM 11) _____

X 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077

10B. DATED (SEE ITEM 13) 4/13/00

CODE _____ FACILITY CODE _____

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 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)

PR: SCA.1090, OC: 2530, JO: M3158, Obligate \$19,364 (Complete) (Task 1)
PR: SCA.1091, OC: 2530, JO: M4186, Obligate \$34,353 (Complete) (Task 2)
PR: SC.1044, OC: 2550X, JO: M3169, Obligate \$137,904 (Complete) (Task 3)

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

(4) 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.

X 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:

D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$191,621, pursuant to the Contract Funding clause. The total allotment period for funding remains through October 15, 2003. Accordingly, the following change is made to the Contract Schedule.

(continued)

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) _____ 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) ROBERTA I. HOLLIFIELD

15B. CONTRACTOR/OFFEROR _____ 15C. DATE SIGNED _____ 16B. UNITED STATES OF AMERICA BY *Roberta Hollifield* (Signature of Contracting Officer) 16C. DATE SIGNED 12-03-02

(Signature of person authorized to sign)

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$2,032,003. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2003.

(b) An additional amount of \$135,802 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Mod 35		2,223	155	2,378
Mod 36		4,658	324	4,982
Mod 37		29,912	2,204	32,116
Mod 38		178,897	12,724	191,621
Total		\$2,032,003	\$135,802	\$2,167,805

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE 1 OF 3 PAGE(S)
2. AMENDMENT/MODIFICATION NO. 39	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. See Block 12	5. PROJECT NO. (If applicable)

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
 PR: OBAA.1092, OC: 2530, JO: R24192, Obligate \$39,000 (Complete) (Task 4)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$39,000, pursuant to the Contract Funding clause. The total allotment period for funding is through ~~January 11, 2003~~ October 15, 2003 (mod 40). Accordingly, the following change is made to the Contract Schedule.

(continued)

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) ROBERTA I. HOLLIFIELD	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY: <u>Robert Hollifield</u> (Signature of Contracting Officer)	16C. DATE SIGNED 12/12/02

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$2,068,273. This allotment covers the following estimated period of performance: April 13, 2001 through ~~January 11, 2003~~.
Oct 15, 2003 (mod 40)

(b) An additional amount of \$138,532 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 <i>32,570</i>	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Mod 35		2,223	155	2,378
Mod 36		4,658	324	4,982
Mod 37		29,912	2,204	32,116
Mod 38		178,897	12,724	191,621
Mod 39		36,270	2,730	39,000
Total		\$2,068,273	\$138,532	\$2,206,805

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGE(S) 1 OF 3
2. AMENDMENT/MODIFICATION NO. 40	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. See Block 12	5. PROJECT NO. (If applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (If other than Item 6)		
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton VA 23681		(4)	9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077	
			10B. DATED (SEE ITEM 13) 4/13/00	
CODE	FACILITY CODE			

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 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)

N/A

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

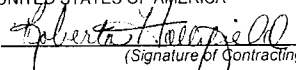
E. **IMPORTANT:** Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to change the total allotment period for funding on Modification 39 from January 11, 2003 to October 15, 2003. Accordingly, the following changes are made:

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) ROBERTA I. HOLLIFIELD		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY  (Signature of Contracting Officer)	4/13/03

1. On Modification 39, Page 1, Block 14, change the following sentence:

From: "The total allotment period for funding is through January 11, 2003"

To: "The total allotment period for funding is through October 15, 2003".

2. On Modification 39, Page 2, change Paragraph 3, Contract Funding, to read as follows:

"3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$2,068,273. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2003.

(b) An additional amount of \$138,532 is obligated under this contract for payment of fee."

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		(8,118)	4,985	(3,133)
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		(68,150)	(4,095)	(72,245)
Mod. 7		(361)	0	(361)
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		(22,592)	(1,700)	(24,292)
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		(31,715)	(2,387)	(34,102)
Mod 28		(36,579)	(2,209)	(38,788)
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Mod 35		2,223	155	2,378
Mod 36		4,658	324	4,982
Mod 37		29,912	2,204	32,116
Mod 38		178,897	12,724	191,621
Mod 39		36,270	2,730	39,000
Mod 40		0	0	0
Total		\$2,068,273	\$138,532	\$2,206,805

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF	PAGE(S)
	1		3

2. AMENDMENT/MODIFICATION NO. 41	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. See Block 12	5. PROJECT NO. (If applicable)
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6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
--	---

8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton, VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
PR. SCA 1098, OC: 2550X, JO: M3158, \$16,177 (Complete) (Task 1)
OC: 2550X, JO: M4186, \$36,220 (Complete) (Task 2)

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

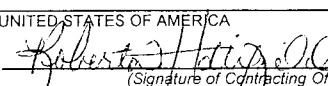
E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$52,397, pursuant to the Contract Funding clause. The total allotment period for funding is through October 15, 2003. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) ROBERTA I. HOLLIFIELD
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 2/26/03

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$2,117,183. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2003.

(b) An additional amount of \$142,199 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		-8,118	4,985	-3,133
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		-68,150	-4,095	-72,245
Mod. 7		-361	0	-361
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		-22,592	-1,700	-24,292
Mod 22		32,750 32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		-31,715	-2,387	-34,102
Mod 28		-36,579	-2,209	-38,788
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Mod 35		2,223	155	2,378
Mod 36		4,658	324	4,982
Mod 37		29,912	2,204	32,116
Mod 38		178,897	12,724	191,621
Mod 39		36,270	2,730	39,000
Mod 40		0	0	0
Mod 41		48,730	3667	52,397
Total		\$2,117,183	\$142,199	\$2,259,202

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		I. CONTRACT ID CODE	PAGE OF PAGE(S) 1 3
2. AMENDMENT/MODIFICATION NO. 42	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. See Block 12	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (If other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton, VA 23681		(4)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
			10B. DATED (SEE ITEM 13) 4/13/00
CODE	FACILITY CODE		

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 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 Page 3

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

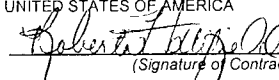
E. **IMPORTANT:** Contractor is not, is required to sign this document and return copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$284,297, pursuant to the Contract Funding clause. The total allotment period for funding is through October 15, 2003. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) ROBERTA I. HOLLIFIELD
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 3/12/03

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$2,381,421. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2003.

(b) An additional amount of \$162,078 is obligated under this contract for payment of fee.”

II. Under Contract Tabulation on Modification Number 22 through 41, make the following administrative correction:

		Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
From	Mod 22		\$32,750	\$2,356	\$34,926
To	Mod 22		\$32,570	\$2,356	\$34,926

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		-8,118	4,985	-3,133
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		-68,150	-4,095	-72,245
Mod. 7		-361	0	-361
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		-22,592	-1,700	-24,292
Mod 22		32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155

Mod 25	21,494	1,495	22,989
Mod 26	64,843	4,881	69,724
Mod 27	-31,715	-2,387	-34,102
Mod 28	-36,579	-2,209	-38,788
Mod 29	22,116	1,665	23,781
Mod 30	603	42	645
Mod 31	12,850	894	13,744
Mod 32	4,090	285	4,375
Mod 33	10,377	722	11,099
Mod 34	38,924	2,707	41,631
Mod 35	2,223	155	2,378
Mod 36	4,658	324	4,982
Mod 37	29,912	2,204	32,116
Mod 38	178,897	12,724	191,621
Mod 39	36,270	2,730	39,000
Mod 40	0	0	0
Mod 41	48,730	3,667	52,397
Mod 42	<u>264,418</u>	<u>19,879</u>	<u>284,297</u>
Total	\$2,381,421	\$162,078	\$2,543,499

ACCOUNTING & APPROPRIATIONS DATA (Block 12 – continued)

PR	OC	JO	AMOUNT	STATUS	TASKS
SCA.1103	2513	M3158	71,000	COMPLETE	1
SCA.1103	2513	M4186	180,000	COMPLETE	2
SCA.1103	2513	M3169	4,297	COMPLETE	3
SCB.1099	2530	R28918	29,000	COMPLETE	4
		TOTAL	284,297		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGE(S)
	1 3

2. AMENDMENT/MODIFICATION NO. 43	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. See Block 12	5. PROJECT NO. (If applicable)
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6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton, VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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 Accounting Summary – Page 3

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

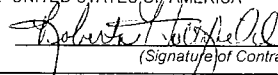
E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$6,896, pursuant to the Contract Funding clause. The total allotment period for funding is through October 15, 2003. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) ROBERTA I. HOLLIFIELD
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
(Signature of person authorized to sign)	BY  (Signature of Contracting Officer)
15C. DATE SIGNED	16C. DATE SIGNED 3-31-03

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

#2,387,868 - mod 44

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is ~~\$2,388,048~~. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2003.

(b) An additional amount of \$162,527 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		-8,118	4,985	-3,133
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		-68,150	-4,095	-72,245
Mod. 7		-361	0	-361
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		-22,592	-1,700	-24,292
Mod 22		32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		-31,715	-2,387	-34,102
Mod 28		-36,579	-2,209	-38,788
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Mod 35		2,223	155	2,378

Mod 36	4,658	324	4,982
Mod 37	29,912	2,204	32,116
Mod 38	178,897	12,724	191,621
Mod 39	36,270	2,730	39,000
Mod 40	0	0	0
Mod 41	48,730	3,667	52,397
Mod 42	264,418	19,879	284,297
Mod 43	<u>6,447</u>	<u>449</u>	<u>6,896</u>
Total	\$2,387,868	\$162,527	\$2,550,395

ACCOUNTING & APPROPRIATIONS

PR	OC	JO	AMOUNT	STATUS	TASKS
SCB.1101	2512	M4292	6,896	COMPLETE	4
		TOTAL	6,896		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF	PAGE(S)
	1		1

2. AMENDMENT/MODIFICATION NO. 44	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. See Block 12	5. PROJECT NO. (If applicable)
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6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton, VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
		10B. DATED (SEE ITEM 13) 4/13/00

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 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)
N/A

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

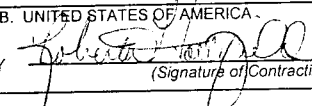
(4)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET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

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to correct a typographical error. As an administrative change to Modification Number 43, Page 2, Paragraph Number I, under 3(a), correct the amount to read \$2,387,868 in lieu of \$2,388,048. All other terms and conditions remain unchanged.

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) ROBERTA I. HOLLIFIELD	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) ROBERTA I. HOLLIFIELD
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED
(Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)
	16C. DATE SIGNED 4/7/03

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE 1	OF 3	PAGE(S) 3
		2. AMENDMENT/MODIFICATION NO. 45		3. EFFECTIVE DATE See Block 16C	
4. REQUISITION/PURCHASE REQ. NO. See Block 12		5. PROJECT NO. (If applicable)			
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton, VA 23681		(4)	9A. AMENDMENT OF SOLICITATION NO.		
			9B. DATED (SEE ITEM 11)		
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077		
			10B. DATED (SEE ITEM 13) 4/13/00		
CODE	FACILITY CODE				

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 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 Accounting Summary – Page 3

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

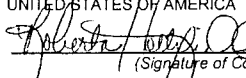
E. **IMPORTANT:** Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$25,000, pursuant to the Contract Funding clause. The total allotment period for funding is through October 15, 2003. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) ROBERTA I. HOLLIFIELD	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 5/8/03
(Signature of person authorized to sign)			

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$2,411,118. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2003.

(b) An additional amount of \$164,277 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		-8,118	4,985	-3,133
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		-68,150	-4,095	-72,245
Mod. 7		-361	0	-361
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		-22,592	-1,700	-24,292
Mod 22		32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		-31,715	-2,387	-34,102
Mod 28		-36,579	-2,209	-38,788
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Mod 35		2,223	155	2,378

Mod 36	4,658	324	4,982
Mod 37	29,912	2,204	32,116
Mod 38	178,897	12,724	191,621
Mod 39	36,270	2,730	39,000
Mod 40	0	0	0
Mod 41	48,730	3,667	52,397
Mod 42	264,418	19,879	284,297
Mod 43	6,447	449	6,896
Mod 44	0	0	0
Mod 45	23250	1750	25000
Total	\$2,411,118	\$164,277	\$2,575,395

ACCOUNTING & APPROPRIATIONS

PR	OC	JO	AMOUNT	STATUS	TASKS
SCB.1104	2530	M4292	20,000	COMPLETE	4
SCB.1106	2530	M4292	5,000	COMPLETE	4
		TOTAL	25,000		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGE(S)
	1 3

2. AMENDMENT/MODIFICATION NO. 46	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. See Block 12	5. PROJECT NO. (If applicable)
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6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP: Code) Attn: Todd Lockhart Mail Stop 429 Mainthia Technologies Inc. NASA Langley Research Center Hampton, VA 23681	(4)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-00077
CODE	FACILITY CODE	10B. DATED (SEE ITEM 13) 4/13/00

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 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 Accounting Summary – Page 3

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

(4)	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.
X	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:
	D. OTHER Specify type of modification and authority)

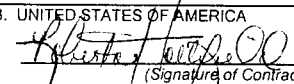
E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies to the issuing office.

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

The purpose of this modification is to increase the contract funding by \$9,265, pursuant to the Contract Funding clause. The total allotment period for funding is through October 15, 2003. Accordingly, the following change is made to the Contract Schedule.

(continued)

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) ROBERTA I. HOLLIFIELD
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
(Signature of person authorized to sign)	BY  (Signature of Contracting Officer)
15C. DATE SIGNED	16C. DATE SIGNED 5/12/03

I. Paragraph 3, Contract Funding, is restated as follows:

“3. CONTRACT FUNDING (NFS 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitations of Funds clause, the total amount allotted by the Government to this contract is \$2,419,780. This allotment covers the following estimated period of performance: April 13, 2001 through October 15, 2003.

(b) An additional amount of \$164,880 is obligated under this contract for payment of fee.”

CONTRACT TABULATION

	Max Contract Value	Cost Funding	Fixed Fee Funding	CPFF Total Funding
Award	\$3,000,000	\$252,349	\$18,000	\$270,349
Mod. 1		160,570	3,000	163,570
Mod. 2		-8,118	4,985	-3,133
Mod. 3		0	0	0
Mod. 4		8,688	464	9,152
Mod. 5		36,862	2,564	39,426
Mod. 6		-68,150	-4,095	-72,245
Mod. 7		-361	0	-361
Mod. 8		13,485	1,015	14,500
Mod. 9		279,325	14,701	294,026
Mod.10		66,030	4,970	71,000
Mod. 11		13,779	957	14,736
Mod 12		0	0	0
Mod 13		5,834	406	6,240
Mod 14		13,950	1,050	15,000
Mod 15		0	0	0
Mod 16		104,014	7,236	111,250
Mod 17		205,799	14,053	219,852
Mod 18		4,760	307	5,067
Mod19		67,523	4,033	71,556
Mod 20		78,509	4,162	82,671
Mod 21		-22,592	-1,700	-24,292
Mod 22		32,570	2,356	34,926
Mod 23		454,990	33,175	488,165
Mod 24		9,494	661	10,155
Mod 25		21,494	1,495	22,989
Mod 26		64,843	4,881	69,724
Mod 27		-31,715	-2,387	-34,102
Mod 28		-36,579	-2,209	-38,788
Mod 29		22,116	1,665	23,781
Mod 30		603	42	645
Mod 31		12,850	894	13,744
Mod 32		4,090	285	4,375
Mod 33		10,377	722	11,099
Mod 34		38,924	2,707	41,631
Mod 35		2,223	155	2,378

Mod 36	4,658	324	4,982
Mod 37	29,912	2,204	32,116
Mod 38	178,897	12,724	191,621
Mod 39	36,270	2,730	39,000
Mod 40	0	0	0
Mod 41	48,730	3,667	52,397
Mod 42	264,418	19,879	284,297
Mod 43	6,447	449	6,896
Mod 44	0	0	0
Mod 45	23250	1750	25000
Mod 46	8662	603	9265
Total	\$2,419,780	\$164,880	\$2,584,660

ACCOUNTING & APPROPRIATIONS

PR	OC	JO	AMOUNT	STATUS	TASKS
SCB.1107	2512	M4292	9,265	COMPLETE	4