

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE 05	PAGE OF PAGES 1 5
2. AMENDMENT/MODIFICATION NO. 056	3. EFFECTIVE DATE JUN 15 2008	4. REQUISITION/PURCHASE REQ. NO. 4200160182	5. PROJECT NO. (If applicable) EXTERNAL TANK
6. ISSUED BY Procurement Office George C. Marshall Space Flight Center National Aeronautics and Space Administration Marshall Space Flight Center, AL 35812		7. ADMINISTERED BY (If other than Item 6) Jocelyn G. Connelly/ACO(504)257-3805	CODE PS42M
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP: Code) Lockheed Martin Corporation P.O. Box 29304 New Orleans, LA 70189		(X)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		(X)	10A. MODIFICATION OF CONTRACT/ORDER NO. NNM04AA02F
			10B. DATED (SEE ITEM 13) 10-27-03
CODE 100016	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.

(X)	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.
1	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).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Clause 52.243-2 Changes Cost Reimbursement and FAR 43.103a
	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.)

	Provisional Estimated Cost	Negotiated Cost	Contract Value	Allotted Funding
Previous Contract Total	\$ 4,064,987	\$ 91,071,537	\$ 95,136,524	\$ 91,994,251
This Modification	\$ 7,767,315	\$ 2,232,685	\$ 10,000,000	\$ 10,000,000
Revised Contract Total	\$ 11,832,302	\$ 93,304,222	\$ 105,136,524	\$ 101,994,251

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) Bradley P. Cartwright Director, Contracts and Estimating		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Harry B. Craig Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ORIGINAL SIGNED BY	16C. DATE SIGNED JUN 15 2008
BY _____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	

- I. The purpose of this modification is to add the requirements of Project Change Proposal B81890 for Post - Hurricane Katrina Major Tooling and Special Test Equipment Repairs at the Michoud Assembly Facility (MAF) in Buildings 451 and 103. Statement of Work (SOW), Cost, Contract Value and Funding are revised as follows: a) Add \$2,232,685 to Negotiated Cost and Contract Value for PCP B81890 for the tool repairs by MAF Building as follows:

Building 451		Building 103	
F78-1193	SRB Upper Attachment Mount Set	T02A7016	Dome Machining & Assy Fixture
F78-1201	Hydraulic Pump & Reservoir System	T02A7048	LH2 Aft Dome Mech Fixture
F78-1202	LH2 Tank Reactive Load System	T05A5018	LO2 Tank Major Weld
F78-1203	Hydraulic Control System LH2 Tank Transfer / Installation	T05A5019	LH2 Tank Major Weld
F78-1309	Fixture	T05A5068	LH2 Tank Major Weld
F78-2422	Control System	T05A5356	LH2 Tank Weld Mandrel
F78-1249	Aft Strut Load System	T05A5357	LH2 Tank Weld Mandrel Dome ¼ Panel to ¼ Panel Trim & Weld
F78-1270	SRB/Strut Attachment Fitting	T01A5087	Dome Body Weld Fixture
F78-1482	Portable Oil Filter Cart	T01A5103	Ogive X-Ray Fixture
		T03A5024	Barrel FSW Weld Fixture #1
		T04A5368	Barrel FSW Weld Fixture #2

- b) Add Attachment J-10 – Hurricane Katrina Recovery -Programmatic, c) Revise Attachment J-1 – Statement of Work to add language for Hurricane Katrina Recovery-Programmatic, d) Revise Attachment J-8- Small/Small Disadvantage & Women Owned Small Business Master Subcontracting Plan, Paragraph H, Projected Subcontract Goals, e) Increase incremental funding for Hurricane Katrina Recovery- Programmatic by \$10,000,000 from \$91,994,251 to \$101,994,251, f) Increase Provisional Estimated Cost for Hurricane Katrina Recovery- Programmatic by \$7,767,315, and g) Revise the Table of Contents to include added attachments.
- II. Section B, Supplies or Services and Prices/Costs, Clause B.2, Estimated Cost for Facilities, paragraph (d) Hurricane Katrina Recovery is amended to read (d) Hurricane Katrina Recovery- Real Property.
- III. Section B, Supplies or Services and Prices/Costs, Clause B.2, Estimated Cost for Facilities, is amended to include a new line item, Paragraph (e) Hurricane Katrina Recovery- Programmatic, as follows:

(e) Hurricane Katrina Recovery- Programmatic

	<u>Provisional Estimated Cost</u>	<u>Negotiated Cost</u>	<u>Contract Value</u>
Previous	0	0	0
This Mod	<u>\$7,767,315</u>	<u>\$ 2,232,685</u>	<u>\$10,000,000</u>
Total	<u>\$7,767,315</u>	<u>\$2,232,685</u>	<u>\$10,000,000</u>

- IV. Section B, Supplies or Services and Prices/Costs, Clause B.2, Estimated Cost for Facilities, Recapitulation of Total Contract Value is amended from \$95,136,524 to \$105,136,524.
- V. Section B, Supplies or Services and Prices/Costs, Clause B.3, Contract Funding (1852.232-81)(Jun 1990), Hurricane Katrina Recovery is amended to read Hurricane Katrina Recovery – Real Property Funds.
- VI. Section B, Supplies or Services and Prices/Costs, Clause B.3, Contract Funding (1852.232-81)(Jun 1990), is amended to include a new line item, Hurricane Katrina Recovery – Programmatic Funds as follows:

	<u>Previous</u>	<u>This Action</u>	<u>Total</u>
Hurricane Katrina Recovery – Programmatic Funds	0	\$10,000,000	\$10,000,000

- VII. Section B, Supplies or Services and Prices/Costs, Clause B.3, Contract Funding (1852.232-81)(Jun 1990), Total Sum Allotted is amended as follows:

	<u>Previous</u>	<u>This Action</u>	<u>Total</u>
Total Sum Allotted	\$91,994,251	\$10,000,000	\$101,994,251

- VIII. Section J, List of Attachments is amended to include the following:

<u>Attachments</u>	<u>Title</u>	<u>Page</u>
J-9	Hurricane Katrina Recovery – Real Property	J-9-1
J-10	Hurricane Katrina Recovery – Programmatic	J-10-1

- IX. All references to Hurricane Katrina Recovery in Section J, Attachment J-1, Statement of Work, Paragraph (i) Hurricane Katrina Recovery are amended to read Hurricane Katrina Recovery – Real Property.

- X. Section J, Attachment J-1, Statement of Work, Paragraph (j) Hurricane Katrina Recovery - Programmatic is added as follows:
 - A. Effort authorized under Attachment J-10 for Hurricane Katrina Recovery – Programmatic consists of those efforts which would normally be performed under Schedule “A” and Schedule “B” for Contract NAS8-00016. Fee associated with this effort will be incorporated into Contract NAS8-00016 via separate contract modification subject to other laws or regulations.
 - B. Reimbursement of cost for items authorized under Attachment J-10 for Hurricane Katrina Recovery – Programmatic shall be separately identified in any cost reimbursement voucher submitted by the contractor under this Contract NNM04AA02F.
- XI. Section J, Attachment J-8, Small/Small Disadvantaged & Women Owned Small Business Master Subcontracting Plan, Paragraph H, Projected Subcontract Goals is amended to update FY06 Estimated Subcontract \$ to be Committed, Small Business Goals, and Small Disadvantaged Business Goals as follows:

	Estimated Subcontract \$ to be Committed	Small Business Goals	Small Disadvantaged Business Goals
FY06		(b)(4)	

- XII. All references to Hurricane Katrina Recovery in Section J, Attachment J-9, Hurricane Katrina Recovery are amended to read Hurricane Katrina Recovery – Real Property.
- XIII. Section J, Attachment J-10, Hurricane Katrina Recovery - Programmatic is added as follows:

ATTACHMENT J-10

HURRICANE KATRINA RECOVERY - PROGRAMMATIC

- A. Effort authorized under Attachment J-10 for Hurricane Katrina Recovery – Programmatic consists of those efforts which would normally be performed under Schedule “A” and Schedule “B” for Contract NAS8-00016. Fee associated with this effort will be incorporated into Contract NAS8-00016 via separate contract modification subject to other laws or regulations.
- B. Reimbursement of cost for items authorized under Attachment J-10 for Hurricane Katrina Recovery – Programmatic shall be separately identified in any cost reimbursement voucher submitted by the contractor under this Contract NNM04AA02F.

<u>Item No.</u>	<u>Item Description</u>	<u>Estimated Cost*</u>	<u>Estimated Period of Performance</u>	<u>Authorization</u>
1	B81890, Post-Hurricane Katrina Major Tooling/Special Test Equipment (STE) Repairs	\$2,232,685	December 2005 – August 2006	056

* Includes applicable burdens

XIV. The modification administrative funding information is set forth below:

PR#	4200160182	\$10,000,000
Short Text	Hurricane Katrina for impact repairs	
WBS Element	956635.09.06.02.01.04	
Fund Center	62-956635	
Fund	EXCX02006D	
Cost Center	62MP31	
Internal Order	FC400000	

XV. The following pages of the contract are revised/added as appended, and made an inseparable part hereof.

<u>Revised Pages</u>	<u>Added Page</u>
Table of Contents Page2, B-1a, B-2, J-1, J-1-3, J-8-11, J-9-1	J-10-1

XVI. This modification consists in its entirety of Standard Form 30, page 2, page 3, page 4, page 5 and the revised/added pages listed in paragraph XV above.

XVII. In consideration of the modification agreed to herein as partial (NNM04AA02F portion only) equitable adjustment of all claims arising out of or attributable to the issuance of the change(s) and or contractor proposals listed below, the contractor hereby releases the Government from any and all liability under this contract for further equitable adjustments attributable to such facts or circumstances giving rise to said contract change(s) and/or contractor proposal(s) and /or for such additional obligation as may be required by this modification.

Contract Change Identification
 Supplemental Agreement No. 056

Contract Proposal Number
 PCP B81890 (06MO-0469)
 PCIN 071346, dated 5/4/06

SECTION I

CONTRACT CLAUSES

- | | | |
|--------|-----|---|
| Clause | I.1 | Clauses Incorporated by Reference (52.252-2) (Feb 1998) |
| | I.2 | Representations, Certifications and Other Statements of Offerors or Quoters Incorporated by Reference |
| | I.3 | Full Text Clauses
- Limitation of Funds (52.232-22) (Apr 1984) |

SECTION J

LIST OF ATTACHMENTS

- | | |
|------|--|
| J-1 | Statement of Work |
| J-2 | Contractor Acquired Property |
| J-3 | Rehabilitation - Plant Equipment |
| J-4 | Modification and Construction of Real and Installed Property – Construction of Facility Projects (CoF) |
| J-5 | Facility Support Studies |
| J-6 | Preliminary Engineering Reports |
| J-7 | Compliance Documents |
| J-8 | Small Business and Small Disadvantaged Business Concerns -- Subcontracting Plan |
| J-9 | Hurricane Katrina Recovery- Real Property |
| J-10 | Hurricane Katrina Recovery-Programmatic |

(d) Hurricane Katrina Recovery - Real Property

	<u>Provisional Estimated Cost</u>	<u>Negotiated Cost</u>	<u>Contract Value</u>
Previous	\$ 4,064,987	\$ 2,341,754	\$ 6,406,741
This Mod	\$ <u>-0-</u>	\$ <u>-0-</u>	\$ <u>-0-</u>
Total	\$ 4,064,987	\$ 2,341,754	\$ 6,406,741

(e) Hurricane Katrina Recovery - Programmatic

	<u>Provisional Estimated Cost</u>	<u>Negotiated Cost</u>	<u>Contract Value</u>
Previous	\$ -0-	\$ -0-	\$ -0-
This Mod	\$ <u>7,767,315</u>	\$ <u>2,232,685</u>	\$ <u>10,000,000</u>
Total	\$ 7,767,315	\$ 2,232,685	\$ 10,000,000

Recapitulation of Total Contract Value is amended from \$ 95,136,524 to \$105,136,524

B.3 CONTRACT FUNDING (1852.232-81) (JUN 1990)

For purposes of payment of cost, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is stated below and covers performance from the effective date of the contract through the following funded period:

	<u>Previous</u>	<u>This Action</u>	<u>Total</u>	<u>Period Funded Through</u>
Space Flight, Control & Data Communication Funds	\$ 57,276,974	\$ -0-	\$ 57,276,974	August 10, 2006
CoF Funds	\$ 32,482,264	\$ -0-	\$ 32,482,264	(See individual project contract schedule)
CoF Funds (Environmental Studies)	\$ -0-	\$ -0-	\$ -0-	
Hurricane Katrina Recovery Funds-Real Property	\$ 2,235,013	\$ -0-	\$ 2,235,013	
Hurricane Katrina Recovery Funds- Programmatic	<u>\$ -0-</u>	<u>\$ 10,000,000</u>	<u>\$10,000,000</u>	
Total Sum Allotted	\$ 91,994,251	\$10,000,000	\$ 101,994,251	

{END OF SECTION}

SECTION J
LIST OF ATTACHMENTS

<u>Attachments</u>	<u>Title</u>	<u>Page</u>
J-1	Statement of Work	J-1-1
J-2	Contractor Acquired Property (Quarterly Report References)	J-2-1
J-3	Rehabilitation - Plant Equipment	J-3-1
J-4	Construction of Facility (CoF) Projects - Modification and Construction of Real and Installed Property	J-4-1
J-5	Facility Support Studies	J-5-1
J-6	Preliminary Engineering Reports	J-6-1
J-7	Compliance Documents	J-7-1
J-8	Small Business and Small Disadvantaged Business Concerns - Subcontracting Plan	J-8-1
J-9	Hurricane Katrina Recovery-Real Property	J-9-1
J-10	Hurricane Katrina Recovery-Programmatic	J-10-1

(i) Hurricane Katrina Recovery- Real Property

A. Effort authorized under Attachment J-9 for Hurricane Katrina Recovery - Real Property fits in two categories. The first category consists of those efforts which would normally be performed under Schedule "A" and Schedule "B" for Contract NAS8-00016. The second category consists of those efforts which would normally be performed under this Contract NNM04AA02F.

For those efforts which would normally be performed under Schedule "A" and Schedule "B" of Contract NAS8-00016, fee will be paid under said contract for the work authorized hereunder. Said fee will be incorporated into Contract NAS8-00016 via separate contract modification subject to other laws or regulations.

B. Reimbursement of cost for items authorized under Attachment J-9 for Hurricane Katrina Recovery - Real Property shall be separately identified in any cost reimbursement voucher submitted by the contractor under this Contract NNM04AA02F.

(j) Hurricane Katrina Recovery- Programmatic

A. Effort authorized under Attachment J-10 for Hurricane Katrina Recovery- Programmatic consists of those efforts which would normally be performed under Schedule "A" and Schedule "B" for Contract NAS8-00016. Fee associated with this effort will be incorporated into Contract NAS8-00016 via separate contract modification subject to other laws or regulations.

B. Reimbursement of cost for items authorized under Attachment J-10 for Hurricane Katrina Recovery- Programmatic shall be separately identified in any cost reimbursement voucher submitted by the contractor under this Contract NNM04AA02F.

- b. We assist in conducting annual training courses in selling for small/small disadvantaged & women-owned business concerns throughout the South East region. This effort is in conjunction with the Gulf South Minority Supplier Development Council, other major local corporations and government agencies.
- c. Lockheed Martin Corporation is listed in the Louisiana Corporate Directory, which is published by the Gulf South Minority Supplier Development Council. This directory lists the many products and services that we purchase, and lists the key people to contact in the purchasing organization, including the Small Business Administrator.
- d. The lobby receptionists at MAF have been instructed that the Small Business Administrator is available to assist all first-time callers. These callers are counseled regarding the extent of our purchases of the product or service offered, information about the Space Shuttle Program, and are personally introduced to the proper buyer. This procedure saves valuable time for the seller, as well as for Lockheed Martin Corporation.

H. **PROJECTED SUBCONTRACT GOALS**

Goals for subcontracting with Small/Small Disadvantaged & Women-Owned Small Business concerns are hereby identified by fiscal year for the Facility Contract NNM04AA02F.

Goals for Estimated Subcontract Dollars Remaining to be Committed

	Estimated Subcontract \$ to be Committed	Small Business Goals	Small Disadvantaged Business Goals
FY04		(b)(4)	
FY05		(b)(4)	
<i>FY05 Calculations include PCP B90420, B90418 and B90424 effort</i>			
FY06		(b)(4)	
<i>FY06 Calculations includes PCP's ,B90418, B90426,B90430,B90433, and B81890</i>			

- NOTES: (1) Goals based on subcontract dollars for NNM04AA02F for projects/effort. Utilities are not included.
- (2) Small Business Goal includes Small Disadvantaged and Small Disadvantaged includes Small Woman-owned.

ATTACHMENT J-9

HURRICANE KATRINA RECOVERY-REAL PROPERTY

A. Effort authorized under Attachment J-9 for Hurricane Katrina Recovery -Real Property fits in two categories. The first category consists of those efforts which would normally be performed under Schedule "A" and Schedule "B" for Contract NAS8-00016. The second category consists of those efforts which would normally be performed under this Contract NNM04AA02F.

For those efforts which would normally be performed under Schedule "A" and Schedule "B" of Contract NAS8-00016, fee will be paid under said contract for the work authorized hereunder. Said fee will be incorporated into Contract NAS8-00016 via separate contract modification subject to other laws or regulations.

B. Reimbursement of cost for items authorized under Attachment J-9 for Hurricane Katrina Recovery -Real Property shall be separately identified in any cost reimbursement voucher submitted by the contractor under this Contract NNM04AA02F.

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED COST *</u>	<u>ESTIMATED PERIOD OF PERFORMANCE</u>	<u>MOD NUMBER</u>
1	B90430, Repair Bldg 110 Cells B/C Elevator Doors	\$124,364	Mar - May 2006	051
2	Miscellaneous Small Hurricane Repairs as authorized by COTR as Individual projects Not-To-Exceed \$10,000 per project	\$250,000	Mar - Jul 2006	051
3	B90432, Work Study Packages For Various MAF Repairs	\$560,649	Mar - Sep 2006	051
4	Initiate the Implementation of the Remote Control Upgrades for Building 450 Pump House	\$500,000	Apr - Aug 2006	053
5	Initiate the Implementation to Provide Emergency Power to Critical Security Cameras	\$300,000	Apr - Jun 2006	053
6	Initiate the Implementation to Relocate the Emergency Operating Center	\$400,000	Apr - Jun 2006	053
7	B90433, Post-Hurricane Katrina Repair and/or Replace Damaged Trees at MAF	\$206,741	June-Sep 2006	055

* Includes applicable burdens

ATTACHMENT J-10

HURRICANE KATRINA RECOVERY-PROGRAMMATIC

A. Effort authorized under Attachment J-10 for Hurricane Katrina Recovery - Programmatic consists of those efforts which would normally be performed under Schedule "A" and Schedule "B" for Contract NAS8-00016. Fee associated with this effort will be incorporated into Contract NAS8-00016 via separate contract modification subject to other laws or regulations.

B. Reimbursement of cost for items authorized under Attachment J-10 for Hurricane Katrina Recovery - Programmatic shall be separately identified in any cost reimbursement voucher submitted by the contractor under this Contract NNM04AA02F.

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED COST *</u>	<u>ESTIMATED PERIOD OF PERFORMANCE</u>	<u>MOD NUMBER</u>
1	B81890, Post - Hurricane Katrina Major Tooling/Special Test Equipment Repairs	\$2,232,685	December 2005 - August 2006	056

* Includes applicable burdens