

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE 05	PAGE OF PAGES 1 2
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2. AMENDMENT/MODIFICATION NO. 016	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable) EXTERNAL TANK
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6. ISSUED BY Procurement Office George C. Marshall Space Flight Center National Aeronautics and Space Administration Marshall Space Flight Center, Al 35812	CODE PS42M	7. ADMINISTERED BY (If other than Item 6) Jocelyn G. Connelly/ACO (504) 257-3805	CODE PS42M
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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.
	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

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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 Estimated Cost	Contract Value	Amount Allotted
Previous Contract Total	\$ -0-	\$ 18,233,523	\$ 18,233,523	\$ 18,211,799
This Modification	\$ -0-	\$ 2,019,033	\$ 2,019,033	\$ -0-
Revised Contract Total	\$ -0-	\$ 20,252,556	\$ 20,252,556	\$ 18,211,799

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) Henry E. Tralor Manager, Contracts and Data Management	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Harry B. Craig Shuttle Team Lead
15B. CONTRACTOR/OFFEROR BY <u>H. E. Tralor</u> (Signature of person authorized to sign)	15C. DATE SIGNED 8/4/04
16B. UNITED STATES OF AMERICA BY <u>Harry B. Craig</u> (Signature of Contracting Officer)	16C. DATE SIGNED 8-25-04

- I. The purpose of this modification is to incorporate the requirements of Project Change Proposals (PCP) B90416, entitled "Service Life Extension Program (SLEP) Replace Global Site-Wide Local Area Network (LAN), Phase 3, Design" and PCP B81807A, entitled "New Gusmer Pumps for ET Manual Thermal Protection System (TPS) Application – Procurement Effort."
- II. Section B. Clause B.2, Paragraph (a) Space Flight, Control and Data Communications (SFC&DC), is hereby revised to increase the Negotiated Cost and Contract Value by \$230,000 for PCP B90416 and \$1,789,033 for PCP B81807A. The new totals for Negotiated Cost and Contract Value for this paragraph are shown on the attached B-1 page.
- III. Section J, Attachment J-1, Statement of Work, is hereby revised to add paragraph (g), Service Life Extension Program (SLEP) Replace Global Site-Wide Local Area Network (LAN).
- IV. Section J, Attachment J-2, Contractor Acquired Property is hereby revised for PCP B81807A data to add item number (TBD), Supplemental Agreement number, PCP and SA date.
- V. The following pages of the contract are revised as appended, and made an inseparable part hereof.

Revised Pages
B-1, J-1-2, and J-2-1
- VI. This modification consists in its entirety of Standard Form 30, page 2, and the revised pages listed in paragraph V. above.
- VII. In consideration of the modification agreed to herein as complete equitable adjustment of all claims arising out of or attributable to the issuance of the change(s) and/or contractor proposal(s) 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

CCBD ET3-00-9880, Dated 06/24/04

CCBD ET3-00-9877, Dated 06/24/04

Supplemental Agreement No. 016

Contract Proposal Number

PCP B90416 (04M0-0530), PCIN
071287, Dated 06/22/04

PCP B81807A (04M0-0441), PCIN
071353, Dated 05/25/04, Updated
07/14/04,

SECTION B

SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 BRIEF DESCRIPTION OF WORK

The Contractor shall furnish all personnel, facilities, equipment, material, supplies and services (except as may be expressly set forth in this contract as furnished by the Government) and otherwise do all things necessary to, or incident to, performing and providing the following items of work:

To facilitate the Space Shuttle External Tank Project under this consolidated facilities contract by providing Government furnished property and the acquisition of other property for use as needed as further described in Attachment J-1.

(End of clause)

B.2 ESTIMATED COST FOR FACILITIES

The total estimated cost for complete performance of this contract for each category is stated below. This is a cost reimbursable contract only and therefore the Government shall not pay the Contractor a fee for performing this contract.

(a) Space Flight, Control and Data Communications (SFC&DC)

	<u>Negotiated Cost</u>	<u>Contract Value</u>
Previous	\$ 7,352,523	\$ 7,352,523
This Mod	<u>\$ 2,019,033</u>	<u>\$ 2,019,033</u>
Total	\$ 9,371,556	\$ 9,371,556

(b) Construction of Facilities (CoF)

	<u>Negotiated Cost</u>	<u>Contract Value</u>
Previous	\$ 10,881,000	\$ 10,881,000
This Mod	<u>\$ -0-</u>	<u>\$ -0-</u>
Total	\$ 10,881,000	\$ 10,881,000

(c) Construction of Facilities (CoF) Environmental Studies

	<u>Negotiated Cost</u>	<u>Contract Value</u>
Previous	\$ -0-	\$ -0-
This Mod	<u>\$ -0-</u>	<u>\$ -0-</u>
Total	\$ -0-	\$ -0-

Recapitulation of Total Contract Value \$ 20,252,556

(d) Construction of Facilities

Provide the services and supplies for the Design and Site Investigation and Construction and Project Supervision, Inspection and Engineering Services (SIES), for the installation, modification and additions to existing real property and installed property provided to the contractor at MAF needed to carry out the manufacturing, development and test for the External Tank (ET) Project and site operations as identified in Section J, Attachment J-4. Items so furnished shall be listed and reported as Modification and Construction of Real and Installed Property, pursuant to Section "H", Reports.

(e) Preliminary Engineering Reports (PER)

The Contractor shall perform Preliminary Engineering Reports (PER) as identified in Section J, Attachment J-6 that are necessary, prior to the initiation of CoF design or site investigation of construction projects in order to further define (a) project requirements; (b) justification; (c) construction approach and (d) budgetary estimates.

(f) Facility Support Studies

The contractor shall perform those facility support studies that are identified in Section J, Attachment J-5. Facility Support Studies are those type studies that must be performed prior to the initiation of design or site investigation of unusual construction/environmental projects in order to determine "(a) the condition of MAF's infrastructure, (b) further define any facility project requirements, (c) provide higher fidelity budgetary estimates (d) MAF project requirements driven by environmental law or regulations (environmental studies applicability only)."

(g) Service Life Extension Program (SLEP) Replace Global Site-Wide Local Area Network (LAN)

The Contractor shall perform the design activity required to replace the Global Site-Wide LAN, Phase 3. As identified in PCP B90416, the contractor will perform the design activity for the replacement of the remaining LAN not addressed in the LAN upgrades associated with the Paperless Manufacturing Execution System (PMES) initiative definitized under the NAS8-39243(F) Contract.

ATTACHMENT J-2

CONTRACTOR ACQUIRED PROPERTY

<u>ITEM # /QUARTERLY REPORT /LETTER # REFERENCE</u>	<u>SUPPLEMENTAL AGREEMENT #</u>	<u>PCP #</u>	<u>NASA CO AUTHORIZATION DATE</u>
A7638	002	B90409	12/12/03
4 TH Q 2003/ 03MI-1157			12/17/03
4 TH Q 2003/ 03MI-1169			12/22/03
1 ST Q 2004/ 04MI-0247			04/05/04
OFF CYCLE/ 04MI-0297			04/26/04
OFF CYCLE/ 04MI-0363			05/19/04
OFF CYCLE/ 04MI-0410			06/08/04
2 ND Q 2004/ 04MI-0512			07/07/04
GUSMER PUMPS (A#TBD)	016	B81807A	SA 016 DATE TBD