

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE 12	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 0016	3. EFFECTIVE DATE PS43
4. REQUISITION/PURCHASE REQ. NO. N/A	5. PROJECT NO. (If applicable) MSFOC
6. ISSUED BY CODE	7. ADMINISTERED BY (If other than Item 6) CODE MKP

Procurement Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, AL 35812

PS43/Mark A. York (256) 544-4028

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) JACOBS TECHNOLOGY INC. MSFOC GROUP 13800 OLD GENTILLY ROAD, BLDG 320 NEW ORLEANS, LA 70129-2218 ATTN: MIKE DAWSON (931) 455-6400	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NNM09AA20C
		10B. DATED (SEE ITEM 13) 05/01/2009
CODE 07486 - CAGE	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 _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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:
X	D. OTHER (Specify type of modification and authority) 1852.232-81 CONTRACT FUNDING (JUN 1990)

E. IMPORTANT: Contractor is not is required to sign and return three (3) original copies to the issuing office.

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

	Contract Amount	Alloted Funding
Previous Contract Amount	\$ 181,384,190	\$ 109,457,628
Increase this Modification	\$ 4,970,067	\$ 644,438
New Contract Amount	\$ 186,354,257	\$ 110,102,066

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) Michael C. Dawson, Vice President & General Manager MAF Group, Jacobs Technology, Inc.	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Mark A. York Contracting Officer
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
15C. DATE SIGNED	16C. DATE SIGNED
(Signature of person authorized to sign)	BY (Signature of Contracting Officer)

14. **DESCRIPTION OF AMENDMENT/MODIFICATION (continued):**

(A) This modification adds incremental funding in the amount of **\$ 644,438** as set forth below:

Financial and Accounting Data to be added:

PR # 4200330041
 Internal Order FC000000
 Cost Center 62SF02
 Fund Center 62

WBS Element	Fund	Amount
804911.02.08.10.SF39.10	CASX22010R	\$10,058
271467.01.02.01	EXCX22010D	\$500,000
735200.02.01.08	EXCX22010D	\$134,380

(B) Clause B.2, **ESTIMATED COST AND AWARD FEE (1852.216-85) (SEP 1993)**, as set forth on page B-1 and B-2 of the contract, is hereby increased by **\$4,970,067** as result of this modification. The following recapitulation sets forth current contract values.

Section B-2 Estimated Cost and Award Fee is changed from:

The total estimated cost of this contract is (b)(4) for CLIN 1 - 9. The total award fee for this contract is (b)(4) for CLIN 1,2,4,5,7,and 8. The total estimated cost for Option Years 1 and 2 is (b)(4) for CLIN 10 - 15. The total award fee for the Option Years 1 and 2 is \$ (b)(4) for CLIN 10, 11, 13, and 14. The total estimated cost of this contract is (b)(4) with total award fee of (b)(4) for a total contract value of \$263,698,931.

to:

The total estimated cost of this contract is (b)(4) for CLIN 1 - 9. The total award fee for this contract is (b)(4) for CLIN 1,2,4,5,7,and 8. The total estimated cost for Option Years 1 and 2 is (b)(4) for CLIN 10 - 15. The total award fee for the Option Years 1 and 2 is \$ (b)(4) for CLIN 10, 11, 13, and 14. The total estimated cost of this contract is (b)(4) with total award fee of (b)(4) for a total contract value of \$268,668,998.

Table B-1 is changed from:

TABLE B-1, ESTIMATED COST AND AWARD FEE (AF)							
CLIN	Description	TOTAL ESTIMATED COST	TOTAL MAXIMUM	TOTAL EARNED AWARD FEE	TOTAL VALUE		
1	Mission Services for Yr 1	(b)(4)			\$35,564,993		
2	J-1 PWS IDIQ Task Orders for Year 1				\$9,623,195		
3	J-2 PWS IDIQ Task Orders for Year 1				N/A	\$29,310,653	
Total CLIN						\$74,498,841	
4	Mission Services for Yr 2					\$39,432,393	
5	J-1 PWS IDIQ Task Orders for Yr 2					\$2,864,460	
6	J-2 PWS IDIQ Task Orders for Yr 2					N/A	\$25,601,249
Total CLIN						\$67,898,102	
7	Mission Services for Yr 3						\$38,987,247
8	J-1 PWS IDIQ Task Orders for Yr 3				TBD		
9	J-2 PWS IDIQ Task Orders for Yr 3			N/A	TBD		
Total CLIN 7, 8 and 9					\$38,987,247		

to:

TABLE B-1, ESTIMATED COST AND AWARD FEE (AF)					
CLIN	Description	TOTAL ESTIMATED COST	TOTAL MAXIMUM	TOTAL EARNED AWARD FEE	TOTAL VALUE
1	Mission Services for Yr 1	(b)(4)		\$1,129,865	\$35,564,993
2	J-1 PWS IDIQ Task Orders for Year 1			\$478,715	\$11,388,619
3	J-2 PWS IDIQ Task Orders for Year 1			N/A	\$30,400,756
Total CL					\$77,354,368
4	Mission Services for Yr 2				\$39,432,393
5	J-1 PWS IDIQ Task Orders for Yr 2				\$3,049,125
6	J-2 PWS IDIQ Task Orders for Yr 2			N/A	\$27,531,124
Total CL					\$70,012,642
7	Mission Services for Yr 3				\$38,987,247
8	J-1 PWS IDIQ Task Orders for Yr 3		TBD		
9	J-2 PWS IDIQ Task Orders for Yr 3		N/A	TBD	
Total CLIN 7, 8 and 9					\$38,987,247

(C) Clause B.5, **AWARD FEE SCORES**, as set forth on page B-3 of the contract, is hereby revised to reflect updated Award Fee Pools as result of this modification.

(D) Clause B.6, **CONTRACT FUNDING (1852.233-81) (JUN 1990)**, as set forth on page B-5 of the contract, is hereby increased by **\$644,438** as result of this modification. The following recapitulation sets forth current funded amounts.

(E) Attachment J-1, Performance Work Statement, Paragraph 1.1.5, Work Requirement 4 is revised to clarify the requirement for consent for procurements in excess of \$100,000 and now reads as follows:

“4. Submit “consent to place” file documentation for all subcontracts and purchase orders with a value equal to or greater than \$100,000 and provide advance notification of proposed subcontracts and purchase orders with a value equal to or greater than \$25,000. Submit for consent a written justification to award a sole source subcontract and/or purchase order with a value equal to or greater than \$5,000.”

(F) **Attachment J-16 IDIQ List of Task Orders J-1 AND J-2** is hereby revised to incorporate Task Orders 031 through 039.

(G) As a result of this modification, the following pages of the contract are hereby deleted and replaced with a new page as indicated below.

Attachments Page(s) Deleted	Replacement Added Page(s)
B-1 and B-2 (Mod 0011)	B-1 and B-2 (Mod 0016)
B-5 (Mod 0015)	B-5 (Mod 0016)
J-1-14 (Mod 0004)	J-1-14 (Mod 0016)
J-16 (Mod 0011)	J-16 (Mod 0016)

B-1 SERVICES TO BE FURNISHED AND TYPE OF CONTRACT

A. Consistent with NASA's most important core value of safety - safety of the public, safety of the astronauts and pilots, safety of our workforce, and safety of our equipment and property: The Contractor shall provide all resources (except as expressly stated in the contract as furnished by the Government) necessary to furnish the services delineated in the Performance Work Statement (PWS) in Attachment J-1, entitled: "Michoud Assembly Facility Manufacturing Support and Facilities Operations Contract (MSFOC)" and Attachment J-2, entitled: "MSFOC Facilities PWS."

B. The services will be procured under two separate portions, Mission Services (MS) and Indefinite Delivery/Indefinite Quantity (IDIQ). The requirement is being procured on a cost-plus-award-fee basis. The contract and supporting data are organized as shown below:

[1] The Mission Services portion covers work identified in Section 1.0 – 10.0 of the Attachment J-1, MSFOC PWS. Project management and administrative resources necessary to manage both the Mission and the IDIQ contract portions are covered in the Mission Services.

[2] IDIQ task orders will be used to procure those services identified in Section 11.0 of Attachment J-1, MSFOC PWS and Section 1.0 - 8.0 of Attachment J-2, MSFOC Facilities PWS that cannot be predetermined or quantified in advance.

(End of Clause)

B-2 1852.216-85 ESTIMATED COST AND AWARD FEE (SEP 1993)

A. The total estimated cost of this contract is (b)(4) for CLIN 1 - 9. The total award fee for this contract is (b)(4) for CLIN 1,2,4,5,7, and 8. The total estimated cost for Option Years 1 and 2 is (b)(4) for CLIN 10 - 15. The total award fee for the Option Years 1 and 2 is (b)(4) for CLIN 10, 11, 13, and 14. The total estimated cost of this contract is (b)(4) with total award fee of (b)(4) for a total contract value of \$268,668,998.

B. Table B-1 reflects the contract values of individual contract line items (CLINs) and is set forth below:

TABLE B-1, ESTIMATED COST AND AWARD FEE (AF)

CLIN	Description	TOTAL ESTIMATED COST	TOTAL MAXIMUM POTENTIAL AWARD FEE	TOTAL EARNED AWARD FEE	TOTAL VALUE	
1	Mission Services for Yr 1	(b)(4)		\$1,129,865	\$35,564,993	
2	J-1 PWS IDIQ Task Orders for Year 1			\$478,715	\$11,388,619	
3	J-2 PWS IDIQ Task Orders for Year 1			N/A	\$30,400,756	
				N 1, 2 and 3	\$77,354,368	
4	Mission Services for Yr 2				\$39,432,393	
5	J-1 PWS IDIQ Task Orders for Yr 2				\$3,049,125	
6	J-2 PWS IDIQ Task Orders for Yr 2			N/A	\$27,531,124	
				N 4, 5 and 6	\$70,012,642	
7	Mission Services for Yr 3				\$38,987,247	
8	J-1 PWS IDIQ Task Orders for Yr 3		TBD			
9	J-2 PWS IDIQ Task Orders for Yr 3	N/A	TBD			
Total CLIN 7, 8 and 9					\$38,987,247	

If the Government exercises any of its Options pursuant to the terms of the contract, the estimated costs and fees for each Mission Services CLIN shall be as set forth in Table B-2 below.

TABLE B-2, MISSION SERVICES - OPTION VALUES

CLIN	DESCRIPTION	TOTAL ESTIMATED COST	TOTAL MAXIMUM POTENTIAL AWARD FEE	TOTAL EARNED AWARD FEE	TOTAL VALUE
10	Mission Services for Yr 4 (Option 1)	(b)(4)			\$40,130,520
11	J-1 PWS IDIQ Task Orders for Yr 4 (Option 1)				TBD
12	J-2 PWS IDIQ Task Orders for Yr 4 (Option 1)			N/A	TBD
				CLIN 10, 11, and 12	TBD
13	Mission Services for Yr 5 (Option 2)				\$42,184,221
14	J-1 PWS IDIQ Task Orders for Yr 5 (Option 2)				TBD
15	J-2 PWS IDIQ Task Orders for Yr 5 (Option 2)	N/A			TBD
CLIN 13, 14, and 15					TBD

B-5 AWARD FEE SCORES

The amount of award fee earned shall be determined in accordance with Section J, Attachment J-5, *Performance Evaluation Plan*, and B.4, "1852.216-76 Award Fee for Service Contracts." The following tables specify the award fee available and award fee earned. NASA will make provisional and final earned award fee payments in accordance with B.4, "1852.216-76 Award Fee for Service Contracts."

AWARD FEE PERIOD		AWARD FEE	
FROM	TO	AVAILABLE	EARNED
BASE PERIOD			
1-May-09	31-Oct-09	(b)(4)	\$1,608,580
1-Nov-09	30-Apr-10		
1-May-10	31-Oct-10		
1-Nov-10	30-Apr-11		
1-May-11	31-Oct-11		
1-Nov-11	30-Apr-12		
OPTION YEAR 1			
1-May-12	31-Oct-12		
1-Nov-12	30-Apr-13		
OPTION YEAR 2			
1-May-13	31-Oct-13		
1-Nov-13	30-Apr-14		

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

- A. For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is (b)(4). This allotment is for the MAF Manufacturing Support and Facility Operations Contract and covers the following estimated period of performance: May 1, 2009 through July 15, 2010.
- B. An additional amount of (b)(4) is obligated under this contract for payment of fee.

	<u>Previous</u>	<u>This Action</u>	<u>Total</u>
Estimated Cost:			
Operations	(b)(4)		
Construction of Facilities			
Provisional Award Fee:			
Earned Award Fee:	\$ 1,608,580	\$ -	\$ 1,608,580
Total Sum Allotted:	\$ 109,457,627	\$ 644,438	\$ 110,102,065

(End of Clause)

4. Submit electronic data and information in the applicable Government Standard formats and protocols.

1.1.5 Procurement Management

NOTE: Effort in this PWS section consists of both Mission Services and IDIQ. Procurement Management for PWS scope authorized on an IDIQ basis (e.g. subcontracting construction) will be authorized and costed as a function of the IDIQ task order.

Scope:

The Contractor shall provide effective, customer focused procurement and subcontract management that results in consistently high-quality products, services, and deliverables. The Contractor shall provide overall management of the subcontract requirements.

The Contractor shall develop and execute documentation to support the procurement of services, supplies, materials, and equipment including but not limited to:

- Consumables
- Store stock
- Parts
- Rental, lease or maintenance of equipment
- Software, software licenses or software maintenance
- Critical spares

Work Requirements:

The Contractor shall:

1. Maintain management, technical control, and visibility of intra-company, subcontractor, and major vendor activities that are used to fulfill contract requirements. Maintain accountability for the quality and timeliness of the goods and services that are subcontracted.
2. Establish and ensure continuous certification of a Government approved purchasing system in accordance with the FAR and NFS.
3. Provide small business and small disadvantaged business concerns the maximum practicable opportunity to receive a fair portion of subcontract awards in accordance with Attachment J-4, Small Business and SDB Subcontract Plan.
4. Submit "consent to place" file documentation for all subcontracts and purchase orders with a value equal to or greater than \$100,000 and provide advance notification of proposed subcontracts and purchase orders with a value equal to or greater than \$25,000. Submit for consent a written justification to award a sole source subcontract and/or purchase order with a value equal to or greater than \$5,000.

ATTACHMENT J-16

IDIQ LIST OF TASK ORDERS J-1

Modification 0016

Task Order No.	Initiating User/Org	Description	Period of Performance	Estimated Cost	Maximum Potential Award Fee	Total Value
001	SF01	Contract Phase-In	05/01/09 to 6/30/09	(b)(4)		\$78,173
002	SF01	Computerized Maintenance Management System	05/01/09 to 12/31/09			\$1,245,766
003	SF01	External Tank Project Annual Support	07/01/09 to 04/30/10			\$1,421,499
004	SF01	Ares I Upper Stage Element Annual Support	07/01/09 to 04/30/10			\$1,066,947
005	SF01	Orion Project Annual Support	07/01/09 to 04/30/10			\$977,868
006	SF01	GIS Engineering Assessment	5/1/09 to 10/31/09			\$138,971
007	SF01	NCAM Annual Support	07/01/09 to 04/30/10			\$1,629,286
010	SF01	Bldg. 103 VAB CoF Project – Phase 1	6/10/09 – 7/10/09			\$25,656
011	SF01	MAF Site Promotion & Development	6/22/09 to 4/30/10			\$272,331
012	SF01	Services for USDA NFC	7/1/09 to 9/30/09			\$89,731
013	SF01	Services for USCG	7/1/09 to 9/30/09			\$63,952
015	SF01	Substation 30 South Low Voltage Main Breaker Maintenance	6/24/09 to 12/24/09			\$242,138
016	SF01	Bldg. 103 VAB CoF Project – Phase 2	6/30/09 to 8/20/09			\$23,178
017	SF01	Modifications to Support Upper Stage Mfg. Robotic Weld Tool	8/1/09 to 10/15/09			\$283,075
018	SF01	Modifications to Support Upper Stage Mfg. Modifications for Machining Center	8/1/09 to 10/15/09			\$237,894
019	SF01	Integrate Gas Meters at MAF	8/5/09 to 9/30/09			\$540,839

ATTACHMENT J-16

020	SF01	Update Substation Meters at MAF	8/5/09 to 9/30/09	(b)(4)	\$762,654
021	SF01	Replace Substation 46	9/5/09 to 12/14/10		\$124,070
022	SF01	Replace Plant Air	9/1/09 to 9/14/10		\$65,017
023	SF01	Rehab Process Tanks	9/1/09 to 8/15/10		\$70,542
024	SF01	Move GE1200 Aronson Weld Positioner to MSFC	8/21/09 to 9/30/09		\$2,621
025	SF01	Replace Transformers - Substation 16	8/31/09 to 2/28/10		\$353,537
026	SF01	Bldg. 103 VAB CoF Project – Phase 3	9/18/09 to 3/22/11		\$1,945,135
027	SF01	Services for USDA NFC	10/1/09 to 9/30/10		\$430,027
028	SF01	Services for USCG	10/1/09 to 9/30/10		\$280,997
029	SF01	MAF 114 Replace AHUs 14 &26	11/1/09 to 12/15/10		\$71,946
030	SF01	Installation of Electric Receptacles	10/1/09 to 10/30/09		\$43,807
031	SF01	Preservation of ET Tooling	10/1/09 to 3/31/10		\$1,159,269
032	SF01	Restore Building 318	11/2/09 to 6/30/10		\$353,919
033	SF01	East Levee Analysis	11/16/09 to 1/15/10		\$10,628
034	SF01	Bldg. 318 HVAC Assessment	11/16/09 to 12/11/09		\$21,027
035	SF01	Repl. Sewer Line Bldg. 485	11/2/09 to 12/30/09		\$9,936
037	SF01	MAF Engineering Support	11/16/09 - 4/30/10		\$171,882
038	SF01	Modifications to Support US -	11/16/09 - 3/10/11		\$139,896
039	SF01	Repair fan house	12/11/09 - 2/28/10		\$83,530

SECTION J-1 TOTAL TASK ORDER VALUE				\$14,437,744
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ATTACHMENT J-16

IDIQ LIST OF TASK ORDERS J-2

Modification 0016

Task Order No.	Initiating User/Org	Description	Period of Performance	Ceiling Burden Applied	Total Value	
008		Cafeteria Equipment for Bldg. 351	6/10/09 – 7/2/09	(b)(4)	\$183,638	
009		Improvements to Bldg. 351	6/10/09 – 7/7/09		\$50,068	
014		Utilities for MAF	6/1/09 – 9/30/10		\$17,248,200	
017		Modifications to support Upper Stage Mfg. Robotic Weld Tool	11/2/09 - 6/4/10		\$3,097,901	
018		Modifications to Support Upper Stage Mfg. Modifications for Machining Center	11/2/09 - 11/30/10		\$2,001,136	
021		Replace Substation 46 and MCC's	11/16/09 - 5/15/11		\$1,994,000	
022		Bldg. 103 Replace Plant Air - Phase 1	10/16/09 - 2/9/11		\$1,090,000	
023		Rehab Process Tanks - Phase 1	10/16/09 - 2/25/11		\$1,184,000	
026		Bldg. 103 Addition of Vertical Assembly	9/15/09 - 3/18/11		\$27,484,912	
029		MAF 114 Replace AHUs 14 & 26	11/1/09 - 12/30/10		\$578,047	
036		CAP - FY10	11/9/09 - 9/30/10		\$1,021,481	
038		Modifications to support US	12/28/09 - 3/10/11		\$1,998,498	
SECTION J-2 TOTAL TASK ORD					\$57,931,881	