AMENDMENT OF SOLICITA	TION/MODIFICATION OF CO	ONTRACT	1. CONTRACT I	D CODE	PAGE 1 of 3
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4 REQUISITION/P	URCHASE NO.	5. PRC	JECT NO. (If applicable)
1	2/16/2007	4200	187664		
NASA Glenn Research Center Attn: Heidi D. Shaw Exploration Systems Branch 21000 Brookpark Road, Mail Sto Cleveland, OH 44135-3191			ED BY (If other than	item 6)	CODE
NAME AND ADDRESS OF CONTRAC		Zip Code)	9A. AMENDMEN	NT OF SOL	LICITATION NO.
Hamilton Sundstrand Space Sys 4747 Harrison Avenue P. O. Box 7002 Rockford, IL 61125-7002	tems International, Inc.		9B. DATED (SE	TION OF C	ONTRACT/ORDER NO.
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IMPORTANT: Contractor is not.	is required to sign this docume	nt and return	copies to the issuir	na office.	
DESCRIPTION OF AMENDMENT/MOI See pages 2-3 attached.	DIFICATION (Organized by UCF sec	tion headings, includ	ing solicitation/contro	act subject	matter where feasible.)
eot as provided herein, all terms and condition	s of the document referenced in Item 9A o	r 10A, as heretofore cha	inged, remains unchan	ged and in f	uli force and effect
A. NAME AND TITLE OF SIGNER (Type Alan A. Fu	or print)	16A, NAME AND T	ITLE OF CONTRAC	TING OFF	ICER (Type or print)
Director, Contracts and Bu		H	eidi D. Shaw, Co	ontractin	g Onicer
B CONTRACTOR/OFFEROR	15C DATE SIGNED	16B. UNITED STAT			100 0475 010-10
Mange A Tauna	February 16, 2007	BY	TO D.	Kaur	- 2/11/17
(Signature of person authorized to s		(Signatu	re of Contracting Off	Toord	2/10/0

(b)(4)

Contract NNC07CA03C is hereby modified as follows:

- Clause B.4 "Estimated Cost and Fixed Fee (NASA 18-52.216.74) (DEC 1991) paragraph (d) is revised to read as follows: "The total estimated cost and fixed fee for the total contract effort (including CLINS 2 and 3) is \$5,159,388.00."
- 2. Clause B.4 entitled "Contract Funding (NFS 18-52-232-81) (JUN 1990)" was inadvertently labeled B.4, and is corrected to read Clause "B.5".
- 3. Clause B.5 "Contract Funding (NFS 18-52.232-81) (JUN 1990)

Paragraph (a) is revised to include the following figure: \$ (b)(4) , and the date of "April 2008".

Paragraph (b) is revised to include the following figure: "\$

- 4. Clause Listing F.1 "I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1), CLAUSE 52.217-7 MAR 1989 OPTION FOR INCREASED QUANTITY-SEPARATELY PRICED LINE ITEM fill in is revised to read "Three (3) Months"
- 5. Clause H.5 "Additional Task Order Procedures" is revised to add the following under the table shown: "Task Order Rates are shown in attachment (D) in section J.1 "List of Attachments -Negotiated (GRC 52.215-102 (AUG 2002)"
- 6. Section I.1 "Listing of Clauses Incorporated by Reference", FAR Clause 52.227-14 (JUN 1987) As modified by 1852.227-14 NASA FAR Supplement (OCT 1995) is revised to include "Alternate V (JUN 1987)" that allows the Government to inspect limited rights data at the Contractor's facility.
- 7. Attachment (A) in J.1 "List of Attachments Negotiated", the Statement of Work is revised to include the inclusion of the option item added by way of Amendment 4 to the RFP. Two sections are revised, and are noted as follows:

1<sup>st</sup> section: the fifth sentence of "Scope" of The Statement of Work is revised to read as follows:

"In the second task, the Contractor shall design and fabricate engineering model hardware for development purposes, test any subcomponent or breadboards deemed necessary by the Contractor, procure engineering model long lead hardware and fabricate, test and deliver four (4) turbine pump assemblies (with an option for 4 additional assemblies) that are flightlike engineering models that have completed an agreed upon test series which proves their capabilities."

Page 3

2nd section: the first sentence of Section 4 of The Statement of Work is revised to read:

"Section 4 "TURBINE PUMP ASSEMBLY ENGINEERING MODEL DESIGN & FABRICATION"

The Contractor shall design, develop, fabricate, and deliver 4 turbine pump assembly engineering models (with the option for 4 additional models) that meet the requirements as described in the Turbine pump Assembly Performance Specification."

NOTE: The Statement of Work attached to the contract includes these revisions, the revisions are noted here for a matter of record.

8. Section J.1 "List of Attachments - Negotiated (GRC 52.215-102) (AUG 2002) is revised to read as follows:

"The following documents are attached hereto and made a part of this contract:

ATTACHMENT TITLE # OF PAGES

(A)	Statement of Work	18
(B)	Turbine Pump Assembly Performance Specification	30
(C)	Data Procurement Document	67
(D)	Task Order Rates (per Clause H.5)	1

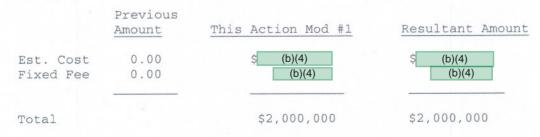
The following documents are included herein by reference and made a part hereof: NOTE: Originals and any updates to the plans listed below will be maintained by the Contracting Officer's Technical Representative.

# OF PAGES DOCUMENT TITLE Small Business Subcontracting Plan dated 12/6/2006 73 (E) Safety, Health and Environmental (SHE) Plan dated 12/14/06 14 (F) Document Number: TVC4-SA-SHP 14 (G) System Safety Plan dated 12/6/06 Document Number: TVC3-SA-SSP 7 (H) Quality Plan dated 12/6/06, Document Number TVC4-QE-QP

12

Manufacturing and Assembly Plan (I)

## 9. A funding summary is as follows:



10.All other terms and conditions under Contract NNC07CA03C remain in full force and effect.

Proposal No.: EM-1042-010

## CLV TVC Turbine Pump Assy NASA Glenn Research Center

1/8/2007

Hamilton Sundstrand Coporation Task Order Rates

Task Order Pric	ing Rates (at Total Cost & Fee)	Contract Year 1 <u>(ends 12/31/07)</u>	Contract Year 2 <u>(ends 12/31/08)</u>
Rates for One (	1) Hour of Labor		
C30 C42 C78 C83 M20 M25 M25 M26 M27 M28 M30 M40	Data Administration Engineering Technician Millwright & Carpenter Test Electrician SLS Program Management SLS Contract Administrator SLS EVMS SLS Scheduler SLS Risk SLS Ops Lead SLS Quality Assurance Engineer	(b)(4) (b)(4)	(b)(4)
M50 M500 M51 M66 M67	SLS Test Test Equip Factory Labor w/abated O/H SLS Assembly SLS Elec Test Equip Engineer SLS Mech Test Equip Engineer	(b)(4)	
M69 M81 M82 M83 M84 M85	SLS PWB/Design Drafting SLS Analytical Services SLS Mech/Advisory Engineer SLS Mechanical Technician SLS Systems Engineer SLS Reliability Engineer	(b)(4)	(b)(4)
Rates for \$1 of N	laterial		
M01 M05 M06	Material Travel Outsource Services	\$1.44 \$1.31 \$1.31	\$1.41 \$1.29

Notice: Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this proposal.

AMENDMENT OF SOLICI	TATION/MODIFICATION OF	FCONTRACT	1. CONTRACT	DOODE	PAGE 1 of 2
2. AMENDMENT/MODIFICATION NO. 2	3. EFFECTIVE DATE 4/5/07		ON/PURCHASE NO.	5. PROJ	ECT NO. (If applicable)
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KRTAN NI. KTS	BUSINESS MANAGEMENT		Heidi D. Shaw, C		
B. CONTRACTOR/OFFEROR	15C. DATE SIGNE	D 16B. UNITED	STATES OF AMERICA		16C. DATE SIGNE
(Signature of person authorized	to sign) APRIL 2,2007	1 BY	Keidi D. L	haw	- 4/5/07
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STANDARD FORM 30 (REV. 10-83) (GRC Overprint 02/05) Prescribed by GSA FAR (48 CFR) 53.243

NNC07CA03C

Modification No. 2

1. Due to a delay in the initial distribution of the contract, the effective date is formally recognized as March 2, 2007. Consequently, the completion date (after 24 month period of performance) is revised to March 1, 2009.

2. Section I.1 "Listing of Clauses Incorporated by Reference" Part II "NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES, the following clause is hereby added:

1852.245-70 JULY 1997 CONTRACTOR REQUESTS FOR GOVERNMENT-OWNED EQUIPMENT

3. Attachment C, Data Procurement Document (DPD), Data Requirements Description (DRD) document number TVC4-MA-PS entitled "Program/Project Schedules", item 16.2 is revised as follows, to delete the reference to "NPD 9501.3 Earned Value Management" as an Applicable Document:

"16.2 Applicable Documents: N/A"

4. A funding summary is as follows:

	Previous Amount	This Action Mod #2	Resultant Amount
Est. Cost Fixed Fee	\$ (b)(4) (b)(4)	- 0 - - 0 -	(b)(4) (b)(4)
Total	\$2,000,000	-0-	\$2,000,000

5. All other terms and conditions under Contract NNC07CA03C remain in full force and effect.

AMENDMENT OF SOLICITAT	/MODIFICATION OF C	CONTRACT	C . CONTRACT ID	CODE	PAGE 1 of 1
2. AMENDMENT/MODIFICATION NO. 3	EFFECTIVE DATE	4. REQUISIT	ON/PURCHASE NO.	5. PRO	IECT NO. (If applicable)
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NASA Glenn Research Center Attn: Heidi D. Shaw Exploration Systems Branch 21000 Brookpark Road, Mail Stop Cleveland, OH 44135-3191	500-319				
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The above numbered solicitation is amend				extended.	is not extended.
) By completing Items 8 and 15, and returning	a reference to the solicitation and	amendment numb	ers. FAILURE OF YOUR AG	CKNOWLE	DGMENT TO BE RECEIVE CTION OF YOUR OFFER.
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NNC07CA03C

1. Pursuant to Clause 52.217-7 "Option for Increased Quantity-Separately Priced Line Item (MAR 1989)", the Government hereby exercises the option, (Contract Line Item 3) for the increased quantity.

2. Per contract line item 3, the quantity of "1 LOT" consists of "4 each Turbine Pump Assembly Engineering Models".

3. Delivery of line item 3 shall be in accordance with Clause F.3 "Deliverables". Delivery date is: August of 2008.

## 4. Funding summary is as follows:

	Previous _Amount_	This Action Mod #3	Resultant Amount
Est. Cost Fixed Fee	\$ (b)(4) (b)(4)	0.00 0.00	\$ (b)(4) (b)(4)
Total	\$2,000,000	0.00	\$2,000,000

5. All other terms and conditions under Contract NNC07CA03C remain in full force and effect.