CONTRACT NAS1-20001 (Modifications)

The following information has been determined to be exempt from disclosure and has been deleted from the modifications:

• Advance Agreement on Indirect Rates, Modification 26.

The deleted material is exempt from disclosure under 14 C.F.R. 1206.300 (b) (4) which covers trade secrets and commercial or financial information obtained from a person and priviledged or confidential. It has been held that commercial or financial matter is "confidential" for purposes of this exemption if its disclosure would be likely to have either of the following effects: (1) impair the Government's ability to obtain necessary information in the future; or (2) cause substantial harm to the competitive position of the person from whom the information was obtained, National Parks and Conservation v. Morton, 498 F2d 765 (D.C. Cir. 1974).

Disclosure of the financial information could cause substantial competitive harm to the contractor by providing its competitors insight into the company's costing practices and management approaches. Furthermore, disclosure would discourage other companies from participating in future competitive procurements, thereby impairing the Government's ability to obtain complete and accurate cost data, and in turn, frustrating the mandate to obtain maximum competition in negotiated procurements.

		OMB Ap			
AMEN@MENT OF SOLICITAT	ION/MODIFICATION OF C	ONTRACT	1 TRACT I	DCODE	PAGE OF PAGES
. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURC	L CHASE REQ. NO.	5. PROJ	ECT NO. (If applicable)
63	February 11, 1999				
National Aeronautics and			(If other than Item 6)	CODE	
Langley Research Center Hampton, VA 23681-0001					
NAME AND ADDRESS OF CONTRACTO	R (No., street, county, State, and Zip Co	ode) 9A. AM	ENDMENT OF SOLI	CITATION N	0.
Aero Systems Engineering, 1	Inc				
Fluidyne Facilities Group	uic.	9B. DA	TED (SEE ITEM 11)		
358 E. Filmore Avenue					
St. Paul, MN 55107-1289		10A. M	ODIFICATION OF CO	ONTRACT/O	RDER NO.
	•		AS1-20001		
		108 0	ATED (SEE ITEM 13)		
CODE	FACILITY CODE	I [30-93	,	
11	. THIS ITEM ONLY APPLIES				
	ended as set forth in Item 14. The hour a			xtended.	is not extended. Offers mus
cknowledge receipt of this amendment prior					
a) By completing Items 8 and 15, and returni					
eparate letter or telegram which includes a r DESIGNATED FOR THE RECEIPT OF OFFI	reference to the solicitation and amendm ERS PRIOR TO THE HOUR AND DATE	ent numbers. FAILURE OF SPECIFIED MAY RESULT	YOUR ACKNOWLE	DGEMENT 1	O BE RECEIVED AT THE PL
ou desire to change an offer already submit	ted, such change may be made by telegr	ram or letter, provided each	telegram or letter ma	ikes referenc	e to the solicitation and this
mendment, and is received prior to the oper 2. ACCOUNTING AND APPROPRIATION					
See Page 2 Accounting and A	Appropriation Data				
	IS ITEM APPLIES ONLY TO N				
	MODIFIES THE CONTRACT/C JED PURSUANT TO: (Specify authority,				
(X) IN ITEM 10A.					HE CONTRACT ORDER NO.
date, etc.) SET FORTH IN ITEM 14	TRACT/ORDER IS MODIFIED TO REFU , PURSUANT TO THE AUTHORITY OF	FAR 43.103(b).	VE CHANGES (such	as changes i	n paying office, appropriation
C. THIS SUPPLEMENTAL AGREE	MENT IS ENTERED INTO PURSUANT	TO AUTHORITY OF:			
D. OTHER (Specify type of modific	ation and authority)				
E. IMPORTANT: Contractor xis		cument and return	copies to the is	ssuing offic	e.
4. DESCRIPTION OF AMENDMENT/MOD					
Subject: Contract NAS1-20 Systems	001 - Engineering Design, D	Development, Instal	lation and Test	ing of Fa	cility Automation
The purpose of this modifica	ation is to add incremental fi	inding pursuant to t	he contract fun	iding clar	ise of the contract
Accordingly, the Contract S	chedule is changed as follow	s: Clause B.4 entitl	ed "Contract F	unding	Task Assignments
(LaRC 52.232-111) (JUN 19	991). Paragraph A is restated	d as follows:			
Swant as assuided by stinged to the	•	ONTINUED)			
Except as provided herein, all terms and con 15A. NAME AND TITLE OF SIGNER (<i>Type</i>	or print)	16A. NAME AND TIT	Changed, remains ur LE OF CONTRACTI	NG OFFICE	t in full force and effect
			CHARLOTTI	E T. HAR	DY
58. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES		,	16C. DATE SIGNED
		BY Cla	litte J. H.	m	2-11-99
					••••
(Signature of person authorized to sign) ISN 7540-01-152-8070		(Signature of 30-105	Contracting Officer)	TANDARD	EOPM 30
			S	TANDARD escribed by GSA NR (48 CFR) 53.24	FORM 30 (Rev. 10-83)
ISN 7540-01-152-8070			S	escribed by GSA	

"A. In accordance with the "Lim _ion of Funds" clause, the amount _....tted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$8,281,172 amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer."

Note: The new amount reflects a funding increase of \$21,350 in cost, from \$8,259,822 to \$8,281,172. Estimated funded-through date is April 30, 1999.

CONTRACT SUMMARY

<u>Cumulati</u>	ive Authorized tasks the	ru Mod 62 Ma	ax Potential Contract Total
Hours:	78,004		80,000
Est. Cost Fixed Fe			\$8,676,968 <u>285,400</u>
TOTAL	\$8,537,180		\$8,962,368
		FUNDING SUMMA	ARY
<u>Previous</u>	Incremental Funding	Changed by this Modifica	tion Amount
Cost: Fee:	\$8,259,822 <u>285,400</u>	\$21,350 <u>-0</u> -	\$8,281,172 <u>285,400</u>
TOTAL	\$8,545,222	\$21,350	\$8,566,572

ACCOUNTING AND APPROPRIATION DATA

P/R: GGH.1745: J/O: R23071 \$21,350 (COMPLETE) - Task 32

					OMB Approv	1. CUNTRACT I	CODE	PAGE OF PAGES
	NDMENT OF SOLICITA				l	·		1 2
AME	NDMENT/MODIFICATION NO. 62	3.	EFFECTIVE DATE	4. REQUISIT	ION/PURCH	ASE REQ. NO.	5. PROJE	CT NO. (If applicable)
ISSL	JED BY	CODE	January 22, 1999	7. ADMINIST		other than item 6)	CODE	- <u></u>
							CODE	·
	ational Aeronautics an		Administration					
	angley Research Cente							
на	ampton, VA 23681-000	רנ						
NAN	E AND ADDRESS OF CONTRAC	TOR (No., str	reet, county, State. and Zip Co	de)	9A. AMEN	IDMENT OF SOLI		D.
				Γ				
A	ero Systems Engineering	, Inc.						
	uidyne Facilities Group				98. DATE	D (SEE ITEM 11)		
	8 E. Filmore Avenue							
St	. Paul, MN 55107-1289				1	IFICATION OF CO	ONTRACT/OF	RDER NO.
					NAS	51-20001		
					108. DAT	ED (SEE ITEM 13)		
ODE		FACILIT	CODE		4-30	-93		
		11. THIS	ITEM ONLY APPLIES	TO AMEND	MENTS OF	SOLICITATI	ONS	
	he above numbered solicitation is a	mended as s	et forth in item 14. The hour a	and date specifie	d for receipt c		xtended.	is not extended. Offers mu
	ledge receipt of this amendment pr			•	•		· •	I is not extended. Otters thus
	ompleting items 8 and 15, and retu				-	-		of the offer submitted; or (c)
	e letter or telegram which includes		o the solicitation and amendme	ent numbers. F	AILURE OF Y	OUR ACKNOWLE	DGEMENT T	O BE RECEIVED AT THE PI
ESIG	NATED FOR THE RECEIPT OF O	FFERS PRIO	R TO THE HOUR AND DATE	SPECIFIED MA	Y RESULT IN	REJECTION OF	YOUR OFFE	R. If by virtue of this amendr
	ire to change an offer already subr ment, and is received prior to the op			am or letter, pro	vided each te	egram or letter ma	ixes reference	to the solicitation and this
2. AC	COUNTING AND APPROPRIATIC	N DATA (If re	əquired)					
See	e Page 2 Accounting and	l Appropr	iation Data					
****************	13.	THIS ITEN	APPLIES ONLY TO M	ODIFICATI	ONS OF C	ONTRACTS/C	RDERS.	
	;	IT MODIFI	ES THE CONTRACT/C	RDER NO.	AS DESCR	RIBED IN ITEM	1 14.	
(x)	A. THIS CHANGE ORDER IS IS IN ITEM 10A.	SUED PURS	UANT TO: (Specify authority)	THE CHANGE	S SET FORT	H IN ITEM 14 ARE	MADE IN TH	E CONTRACT ORDER NO.
	IN LEWEICA.							
V	B. THE ABOVE NUMBERED CO							
Х	date, etc.) SET FORTH IN ITEM	14, PURSUA	NT TO THE AUTHORITY OF	FAR 43.103(b).	INISTRATIVE	CHANGES (SUCH	as chanyes ir	r paying once, appropriation
	C. THIS SUPPLEMENTAL AGR	EEMENT IS	ENTERED INTO PURSUANT	TO AUTHORIT	Y OF:			
	D. OTHER (Specify type of mod	ification and a	authority)					
			••••••••••••••••••••••••••••••••••••••					
	PORTANT: Contractor		is required to sign this do			copies to the i		
	SCRIPTION OF AMENDMENT/M					-		
	ubject: Contract NAS1-2	20001 - E	ngineering Design, D	evelopmen	t, Installa	tion and Test	ing of Fac	ility Automation
S	ystems							
-								
T	he purpose of this modif	ication is	to add incremental fu	inding purs	uant to the	e contract fur	iding clau	se of the contract.
	ccordingly, the Contract					f "Contract F	unding	Task Assignments
(1	.aRC 52.232-111) (JUN	1991). P			5:			
			•	ONTINUED)				
SA N	as provided herein, all terms and o AME AND TITLE OF SIGNER (Ty	conditions of t be or print)	he document referenced in Iter	m 9A or 10A, as	heretofore ch	anged, remains un OF CONTRACTI	ichanged and	in full force and effect.
		· · · · · · · · · · · · · · · · · · ·						
		<u></u>				HARLOTTI		
58. C	ONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED	STATES OF	AMERICA	1	16C. DATE SIGNED
				BY	Aulul	5 1. H.	~6	1-22-99
15N 754	(Signature of person authorized to s	ign)		30-105	(Signature of Co	Intracting Officer)		
	SEDITION UNUSABLE			- CO		Pr	escribed by GSA	FORM 30 (Rev 10-83)
			_				AR (48 CFŔ) 53.24	3
			T T					
			•					
			1	FILE				

"A. In accordance with the "Limi on of Funds" clause, the amount a... ted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$8,259,822 amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer."

Note: The new amount reflects a funding increase of \$75,900 in cost, from \$8,183,922 to \$8,259,822. Estimated funded-through date is April 30, 1999.

CONTRACT SUMMARY

Cumulative Authorized tasks th	nru Mod 62 M	ax Potential Contract Total
Hours: 76,230		80,000
Est. Cost: \$8,181,168 Fixed Fee: <u>271,950</u>		8,676,968 <u>285,400</u>
TOTAL \$8,453,118		\$8,962,368
	FUNDING SUMM	ARY
Previous Incremental Funding	Changed by this Modific	ation <u>Amount</u>
Cost: \$8,183,922 Fee: <u>285,400</u>	\$75,900 <u>-0</u> -	\$8,259,822 <u>285,400</u>
TOTAL \$8,469,322	\$75,900	\$8,545,222

ACCOUNTING AND APPROPRIATION DATA

P/R: GGK.1524: J/O: C261201 \$75,900 (COMPLETE) - Task 31

Transfer funding in the amount of \$3,435 on P/R GGJ.1397 from Task 28 to Task 24. Transfer funding in the amount of \$6,608 on P/R GGJ 1369 from Task 29 to Task 24. Transfer funding in the amount of \$10,000 on P/R GGJ 1379 from Task 29 to Task 24.

MENDMENT OF SOLICITATION AMENDMENT/MODIFICATION NO. 61 ISSUED BY CODE	3. EFFECTIVE DATE December 9, 1998		URCHASE REQ. NO	D. 5. PRO	1 JECT NO. (If ap	2
61			UNUTAGE MEQ. NO	J. 13. MMO	リビット INU. (// 80	
						ңліс воі е)
	E [7. ADMINISTERED) BY (If other than ite	am 6) CODE		
National Aeronautics and Sp Langley Research Center Hampton, VA 23681-0001						
NAME AND ADDRESS OF CONTRACTOR (A	No., street, county, State, and Zip Co	ode) (x) 9A.	AMENDMENT OF	SOLICITATION	NO.	
Aero Systems Engineering. Inc.	•					
Fluidyne Facilities Group 358 E. Filmore Avenue		9В.	DATED (SEE ITEN	<i>4</i> 1 1)		
St. Paul. MN 55107-1289		104		OF CONTRACT/	DRDER NO.	
		x	NAS1-20001			
		106	B. DATED (SEE ITE	M 13)		
			4-30-93			
	TEM ONLY APPLIES TO			· · · · · · · · · · · · · · · · · · ·		
The above numbered solicitation is amende ffers must acknowledge receipt of this amendm				is extended,	is not extend methods:	ded.
ECEIVED AT THE PLACE DESIGNATED FOR FFER. If by virtue of this amendment you desir akes reference to the solicitation and this amen ACCOUNTING AND APPROPRIATION DAT	re to change an offer already submitt ndment, and is received prior to the o FA (If required)	led, such change may t	be made by telegram			
See Page 2 Accounting and App					· · · · · · · · · · · · · · · · · · ·	
	M APPLIES ONLY TO MOD FIES THE CONTRACT/ORD					
(x) A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority) THE CHANGES SET	FORTH IN ITEM 14	ARE MADE IN	THE CONTRAC	т
X B. THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORTH IN C. THIS SUPPLEMENTAL AGREEMEN	NITEM 14, PURSUANT TO THE AU	ITHORITY OF FAR 43.	RATIVE CHANGES (103(b).	such as changes	in paying office	9,
D. OTHER (Specify type of modification	n and authority)		····· <u>································</u>			
. IMPORTANT: Contractor xis not	t, 🔲 is required to sign this do	ocument and return	cooies to	the issuing offi		
. DESCRIPTION OF AMENDMENT/MODIFIC		headings, including sol	icitation/contract sub	ject matter where	feasible.)	
Subject: Contract NAS1-2000 Automation Systems	1 - Engineering Design, D	Development. In:	stallation and "	Festing of F	acility	
The purpose of this modification contract. Accordingly, the Contract Assignments (LaRC 52.232-11)	ntract Schedule is changec 1) (JUN 1991). Paragrap (CONT	i as follows: Cla oh A is restated a FINUED)	use B.4 entitle is follows:	d "Contract	Funding	
xcept as provided herein, all terms and conditio 5A. NAME AND TITLE OF SIGNER (<i>Type or p</i>	ins of the document referenced in Ite irint)	16A. NAME AND T	ofore changed, rema ITLE OF CONTRAC	ins unchanged a TING OFFICER (nd in full force a Type or print)	nd effect.
			CHARLOT	FE T. HARI	DY	
5B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STAT	LES OF AMERICA	Hans	16C. DATES	
		(Signat	ure of Contracting Office			
(Signature of person authorized to sign) N 7540-01-152-8070		0-105		STANMARD		(L.92)
	30	0-105		STANDARD F Prescribed by GSA FAR (48 CFR) 53.243	ORM 30 (Rev. 1	0-83)

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$8,183,922 amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer."

Note: The new amount reflects a funding increase of \$50,000 in cost, from \$8,133,922 to \$8,183,922. Estimated funded-through date is April 30, 1999.

CONTRACT SUMMARY

Cumulative Authorized tasks thru Mod 59		ax Potential Contract Total
Hours: 76,149		80,000
Est. Cost: \$8,134,623 Fixed Fee: <u>271,662</u>		\$8,676,968 <u>285,400</u>
TOTAL \$8,406,285		\$8,962,368
	FUNDING SUMMA	ARY
Previous Incremental Funding	Changed by this Modifica	tion <u>Amount</u>
Cost: \$8,133,922 Fee: <u>285,400</u>	\$50,000 <u>-0</u> -	\$8,183,922 <u>285,400</u>
TOTAL \$8,419,322	\$50,000	\$8,469,322

ACCOUNTING AND APPROPRIATION DATA

P/R: GGH.1741: J/O: C295703 \$40,000 (COMPLETE) - Task 27 P/R: GGH.1742 J/O: R23071 \$10,000 (COMPLETE) - Task 32

		~~~~	MB Approval # X042	0.0000	
MENDMENT OF SOLICITATIO	N/MODIFICATION OF CO	ONTRACT	1. JUNTRACT	ID CODE	PAGE OF PAGES
AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE September 15, 1998		PURCHASE REQ. NO.	5. PROJE	CT NO. (If applicable)
ISSUED BY COD		7. ADMINISTERE	D BY (If other than Item 6	) CODE	
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	pace Administration				
NAME AND ADDRESS OF CONTRACTOR	(No., street, county, State, and Zip Co	ide) (x) 94	A AMENDMENT OF SOL		·
Aero Systems Engineering, Ind Fluidyne Facilities Group 358 E. Filmore Avenue St. Paul, MN 55107-1289	2.		A. MODIFICATION OF C		IDER NO.
		10	B. DATED (SEE ITEM 1	3)	
ODE F.	ACILITY CODE		4-30-93		
11. TH	SITEM ONLY APPLIES TO	AMENDMENTS		S	
	ire to change an offer already submitte endment, and is received prior to the op TA ( <i>If required</i> ) propriation Data EM APPLIES ONLY TO MOD FIES THE CONTRACT/ORD D PURSUANT TO: (Specify authority) RACT/ORDER IS MODIFIED TO REFL IN ITEM 14, PURSUANT TO THE AU ENT IS ENTERED INTO PURSUANT	ed, such change may pening hour and date DIFICATIONS OF ER NO. AS DES ) THE CHANGES SE _ECT THE ADMINIST THORITY OF FAR 42	be made by telegram or I specified. CONTRACTS/ORI CRIBED IN ITEM 1 T FORTH IN ITEM 14 AF RATIVE CHANGES (suc 3.103(b).	etter, provided DERS, 4. IE MADE IN TH	
<ul> <li>E. IMPORTANT: Contractor xis not 4. DESCRIPTION OF AMENDMENT/MODIFIC Subject: Contract NAS1-2000 Automation Systems</li> <li>The purpose of this modificati contract. Accordingly, the Co Assignments (LaRC 52.232-1</li> </ul>	CATION (Organized by UCF section f 01 - Engineering Design, D ion is to add incremental fu ontract Schedule is changed 11) (JUN 1991). Paragrap	headings, including so Development, Ir Inding pursuan I as follows: C	dicitation/contract subject installation and Tes t to the contract fu llause B.4 entitled	matter, where for ting of Fac nding clau	easible.) Sility Se of the
Except as provided herein, all terms and conditi	•	m 9A or 10A, as here	tofore changed, remains	unchanged and	in full force and effect.
5A. NAME AND TITLE OF SIGNER (Type or		16A. NAME AND	TITLE OF CONTRACTING	G OFFICER (T)	rpe or print)
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STA	TES OF AMERICA		16C. DATE SIGNED
(Signature of nervon sutherized to size)		$-\alpha$	telle V. TT	4	9/15/95
(Signature of person authonzed to sign) NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE	1	⊢105	Pres	ANDARD FO cribed by GSA (48 CFR) 53.243	RM 30 (Rev. 10-83)
	FI	LE			

"A. In accordance with the "Lin. ...ion of Funds" clause, the amount of the by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$8,133,922 amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer."

Note: The new amount reflects a funding increase of \$35,000 in cost, from \$8,098,922 to \$8,133,922. Estimated funded-through date is April 30, 1999.

#### CONTRACT SUMMARY

Cumulative Authorized tasks th	ru Mod 59 M	ax Potential Contract Total
Hours: 76,069		80,000
Est. Cost: \$8,093,323 Fixed Fee: <u>271,376</u>		\$8,676,968 <u>285,400</u>
TOTAL \$8,364,699		\$8,962,368
	FUNDING SUMM	ARY
Previous Incremental Funding	Changed by this Modific	ation <u>Amount</u>
Cost: \$8,098,922 Fee: <u>285,400</u>	\$35,000 <u>-0</u> -	\$8,133,922 <u>285,400</u>
TOTAL \$8,384,322	\$35,000	\$8,419,322
AC	COUNTING AND APPROP	PRIATION DATA

P/R: GGH.1737 J/O: R22964 \$35,000 (COMPLETE) - Task 27

AME	ENDMENT OF SOLICIT	TATION MODIFICATION OF C		CONTRACT ID COOL	
2 44	ENDINEMTIMODIFICATION NO. 59	1. EFFECTIVE DATE	A REQUISITION PURCHASE RE	Q. NO.	A MOJECT NO. (7 and which
	KO BY	<u>SEP 1 5 1998</u>	7. AURINE TERED BY / S GRAP BA		<u> </u>
LSI	tional Aeronautics and S ngley Research Center mpton, VA 23681-2198				2008
		(A. Breat, soundy, Sinto and 28": Code)	L		TO SOLEMATON NO.
358	ro Systems Engineering, Ir Baar Fillmore Avenue				
SL	Paul, MN 55107			W. DATED /201	Enaw Yi)
				THA. MODIFICAT	ION OF CONTRACT/ORDER NO.
				X NAS1-200	001
001		MCILITY CODE		THE DATED THE	
	11	THIS ITEM ONLY APPLIES TO	ANENOLENTE OF COL	April 30, 1	1993
TT		emended as sat tom in tem 14. The hour ar			L
		in offer already submitted, such change may called prior to the opening hour and data spe (A (Engineer)	ce mace by telegreen or letter, p cifiled	rowdeg each telegram	n of letter makes reference is
NI/A					
N/A		TE ITEM ABON MER CHE Y YO MOOD			
N/A	1 <b>3.</b> Th It	HE ITEM APPLIES ONLY TO MOD MODIFIES THE CONTRACT/ORD	ER NO. AB DESCRIBED	IN ITEM 14.	
N/A	1 <b>3.</b> Th It	HE ITEM APPLIES ONLY TO MOD MODIFIES THE CONTRACT/ORD ED PURIDANT TO: (April) and (1) THE CHOR	ER NO. AB DESCRIBED	IN ITEM 14.	
	13. TH IT	MODIFIES THE CONTRACT/ORD ED PURBURNT TO: / (proofy purbury) THE CHUN ELTITIERE E LIVELER W. DRE YOU YOU A	ER NO. AS DESCRIBED	IN ITEM 14.	CIRCHINIC, IN ITEM TOA.
0	13. TH IT A THE CHANGE CHOCH & BOOM IN THE ABOVE NUMBER CONT IN THE 14. PUREANT TO THE C THE BUPPLEMENTAL ADDRESS	MODIFIES THE CONTRACT/ORD	ER NO. AS DESCRIBED	IN ITEM 14.	CIRCHINIC, IN ITEM TOA.
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A. Clause C.I. entitled "Statement of Work-Engineering Design Development, Installation and Testing of Facility Automation Systems" is changed by adding the following paragraph:

#### "VI. Year 2000 Compliance

A. Year 2000 compliant," as used herein, means that the information technology (hardware, software and firmware, including embedded systems or any other electro-mechanical or processor-based systems used in accordance with its associated documentation) accurately processes date and date-related data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000 and leap year calculations, to the extent that other information technology, used in combination with the information technology being acquired, properly exchanges date and date-related data with it.

B. Any information technology provided, operated and/or maintained under this contract must be Year 2000 compliant. To ensure this result, the Contractor shall provide documentation describing how the IT items or services demonstrate Year 2000 compliance.

The Contractor shall test any information technology items that are provided, operated, and/or maintained under this contract in accordance with the document "NASA Year 2000 Agency Test and Certification Guidelines and Requirements" (Attachment 1 to this modification). Documentation and testing requirements for Year 2000 compliance are based on complexity of the information technology and the risk associated with the IT item Y2K non-compliance. The testing of the IT items shall be determined using a risk-based approach. Risk has been categorized into 3 categories: Low, Medium, and High. A phased testing approach will be used to identify and correct errors. The testing shall be consistent with Attachment 1, considering the risk level, type of system, and Year 2000 date dependency of the IT item. In order to document the Year 2000 testing and compliance, the "NASA Langley Research Center Y2K Compliance Verification Form" (Attachment 2 to this modification) shall be utilized.

C. Milestones for Renovation, Validation and Implementation: Any IT determined to be non-Year 2000 compliant shall be replaced, retired, or repaired in accordance with the following schedule:

• "Renovation" includes making and documenting software and hardware changes, developing replacement systems, and decommissioning systems to be retired. The Contractor must complete renovation of affected software, hardware and firmware by September 30, 1998.

• "Validation" includes unit, integration, system, and end-to-end testing for Year 2000 compliance. The Contractor must complete validation and testing of converted or replaced systems by January 31, 1999.

• "Implementation" includes acceptance testing and integration of converted and replaced systems into a production environment. The Contractor must complete implementation by March 31, 1999.

D. At a minimum, the Contractor shall provide documentation, including project plans and status reports, which demonstrate that the Contractor is meeting the milestones listed above."

Note: (1) "NASA Year 2000 Agency Test and Certification Guidelines and Requirements" document referenced in the above section and attached was developed for NASA's use. This document is provided as a tool for the Contractor to establish the appropriate testing and documentation requirements for Year 2000 compliance.

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> (2) Attached for your information is the "NASA, Langley Research Center Y2K (Y2000) Compliance Verification Form which will be signed by the Contractor and the Contracting Officer's Technical Representative (COTR). The "Y2K Decision Tree for Documentation and Testing Requirements" form is also attached and can be used to determine the required documentation and testing.

A. All other terms and conditions remain unchanged

Attachments

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The funding amounts set orth below are transferred as follows.

Transfer funding in the amount of \$1,246 on P/R GGD.1031 from Task 16 to Task 31 Transfer funding in the amount of \$823 on P/R GGI.1077 from Task 17 to Task 31 Transfer funding in the amount of \$342 on P/R GGH.1569 from Task 18 to Task 31 Transfer funding in the amount of \$3,095 on P/R GGK61043 from Task 19 to Task 26 Transfer funding in the amount of \$4,154 on P/R GGK61043 from Task 19 to Task 31 Transfer funding in the amount of \$5,067 on P/R GGK61043 from Task 20 to Task 31 Transfer funding in the amount of \$5,067 on P/R GGK81159 from Task 20 to Task 31 Transfer funding in the amount of \$1,210 on P/R GGI.2008 from Task 21 to Task 31 Transfer funding in the amount of \$722 on P/R GGI.2025 from Task 21 to Task 31 Transfer funding in the amount of \$889 on P/R GGH.1636 from Task 22 to Task 31 Transfer funding in the amount of \$24 on P/R GGH.1651 from Task 23 to Task 31

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AMENDMENT OF SOLICITATION/M			OMB Approve 10-0042	CODE	PAGE OF PAGES
	. EFFECTIVE DATE		ON/PURCHASE REQ. NO.	T 5. PROJE	CT NO. (If applicable)
57	July 31, 1998				
6. ISSUED BY CODE		7. ADMINISTE	RED BY (If other than Item 6)	CODE	
National Aeronautics and Space Langley Research Center Hampton, VA 23681-0001	Administration				
8. NAME AND ADDRESS OF CONTRACTOR (No., s	reet, county, State, and Zip Coo	e) (x)	9A. AMENDMENT OF SOLIC	ITATION NO.	
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt			9B. DATED (SEE ITEM 11)		
358 E. Filmore Avenue			10A. MODIFICATION OF CO	NTRACT/OR	DER NO.
St. Paul, MN 55107-1289		X	NAS1-20001		
			10B. DATED (SEE ITEM 13)		
	YCODE		4-30-97		
11. THIS ITE	M ONLY APPLIES TO A	MENDMEN	TS OF SOLICITATIONS		
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D. OTHER (Specify type of modification and	authority)				
E. IMPORTANT: Contractor xis not, 14. DESCRIPTION OF AMENDMENT/MODIFICATION Subject: Contract NAS1-20001 - E Systems The purpose of this modification is Accordingly, the Contract Schedule	ingineering Design, De to add incremental fun is changed as follows:	adings, including velopment, ding pursua Clause B.	n solicitation/contract subject ma Installation and Testin, nt to the contract fundi 4 entitled "Contract Fu	itter where fea g of Facili ing clause	ity Automation
Assignments (LaRC 52.232-111) (J		A is restate		-	
Except as provided herein, all terms and conditions of	•	9A or 10A, as h	eretofore changed, remains unc	hanged and ir	n full force and effect.
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AN	D TITLE OF CONTRACTING C CHARLOTTE T		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED		STATES OF AMERICA		6C. DATE SIGNED
(Signature of person authorized to sign)	4	вү	Nalette J. Am	2	7/31/98
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"A. In accordance with the "Limitation of Funds" clause, the amound allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$8,098,922 amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer."

Note: The new amount reflects a funding increase of \$28,000 in cost, from \$8,070,922 to \$8,098,922. Estimated funded-through date is April 30, 1999.

#### CONTRACT SUMMARY

Cumulative Authorized tasks the	<u>u Mod 56 N</u>	Max Potential Contract Total
Hours: 76,069		80,000
Est. Cost: \$8,050,523 Fixed Fee: <u>271,376</u>		\$8,676,968 <u>285,400</u>
TOTAL \$8,321,899		\$8,962,368
	FUNDING SUMM	IARY
Previous Incremental Funding	Changed by this Modifie	cation Amount
Cost: \$8,070,922 Fee: <u>285,400</u>	\$28,000 <u>-0</u> -	\$8,098,922 <u>285,400</u>
TOTAL \$8,356,322	\$28,000	\$8,384,322

#### ACCOUNTING AND APPROPRIATION DATA

P/R: GGK.1489 J/O: M3701 \$28,000 (COMPLETE) - Task 24

TRANSFER FUNDING IN THE AMOUNT OF \$15,978 , PR GGH.1600 from TASK 15 to Task 24.

AMENDMENT OF SOLICITATION				1. CONTRACT ID	CODE		F PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE			ASE REQ. NO.	5. PROJEC		2
56	April 30, 1998			ASE REQ. NO.	J. FROJEC	. no. (iraj	opiicable)
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National Aeronautics and Spa Langley Research Center Hampton, VA 23681-0001	ace Administration						
8. NAME AND ADDRESS OF CONTRACTOR (N	o., street. œunty, State, and Zip Coo	l le) (x)	9A. AME	NDMENT OF SOLIC	ITATION NO.		
Aero Systems Engineering, Inc. Fluidyne Facilities Group Atm: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289		x	10A. MO	ED (SEE ITEM 11) DIFICATION OF CO	NTRACTOR	DER NO.	
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Except as provided herein, all terms and condition: 15A. NAME AND TITLE OF SIGNER (Type or prin	s of the document referenced in Item	9A or 10A, as h	ID TITLE O	anged, remains und F CONTRACTING C IARLOTTE T.	FF CER (Type		id effect.
15B. CONTRACTOR/OFFEROR	150. DATE SIGNED	BY				C. DATE SI 4/ 30	
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"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$8,070,922 amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer."

Note: The new amount reflects a funding increase of \$481,724 in cost, from \$7,589,198 to \$8,070,922. Estimated funded-through date is April 30, 1999.

#### CONTRACT SUMMARY

Cumulative Authorized tasks the	ru Mod 54 M	ax Potential Contract Total
Hours: 67,378	·	80,000
Est. Cost: \$7,264,929 Fixed Fee: <u>240,371</u>		\$8,676,968 <u>285,400</u>
TOTAL \$7,505,300		\$8,962,368
	FUNDING SUMMA	RY
Previous Incremental Funding	Changed by this Modifica	ation <u>Amount</u>
Cost: \$7,589,198 Fee: 285,400	\$481,724 -0-	\$8,070,922 <u>285.400</u>
TOTAL \$7,874,598	\$481,724	\$8,356,322
ACC	COUNTING AND APPROP	RIATION DATA

P/R: GGH.1728 J/O:	C295703	\$379,600 (COMPLETE) - Task 27
P/R: GGH.1729 J/O:	C474701	\$67,347 (COMPLETE) - Task 33
P/R: GGH.1731 J/O:	C295305	\$24,777 (COMPLETE) - Task 13
P/R: GGH.1732 J/O:	C295703	\$10,000 (COMPLETE) - Task 30

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"A., In accordance with the "L....itation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$7,589,198 amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer."

Note: The new amount reflects a funding increase of \$323,500 in cost, from \$7,265,698 to \$7,589,198. Estimated funded-through date is July 28, 1998.

#### CONTRACT SUMMARY

Cumulative Authorized tasks th	ru Mod 54 M	ax Potential Contract Total
Hours: 67,378		80,000
Est. Cost: \$7,264,929 Fixed Fee: <u>240,371</u>		\$8,676,968 <u>285,400</u>
TOTAL \$7,505,300		\$8,962,368
	FUNDING SUMMA	RY
Previous Incremental Funding	Changed by this Modifica	ation <u>Amount</u>
Cost: \$7,265,698 Fee: 285,400	\$323,500 -0-	\$7,589,198 <u>285,400</u>
TOTAL \$7,551,098	\$323,500	\$7,874,598
ACC		RIATION DATA

P/R: GGH.1715; J/O: C474701 \$313,000 (COMPLETE) - Task 33 P/R: GGH.1722; J/O: C295305 \$10,500 (COMPLETE) - Task 13

			OMB Aper	ova #: 2700-0042			
				1. CONTRACT ID	CODE	PAGE O	PAGES
AMENDMENT OF SOLICITATIO							2
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. HEQUISITI	ON/PURCH	ASE REQ. NO.	5. PROJEC	CT NO. (If ap	plicable)
6 ISSUED BY CODE	<b>JAN 1 2 1998</b>	7. ADMINISTE	BED BY //	f other than Item 6)	CODE	T	
National Aeronautics and Sp Langley Research Center Hampton, VA 23681-0001	ace Administration					<b></b>	
8. NAME AND ADDRESS OF CONTRACTOR (A	No., street, county, State, and Zip Co	ode) (x)	9A. AME	NDMENT OF SOLIC	ITATION NO.		
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue				ED (SEE ITEM 11) DDIFICATION OF CO	NTRACT/ORI	DER NO.	
St. Paul, MN 55107-1289		X	NA	\$1-20001			
			108. DA	TED (SEE ITEM 13)			
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X B. THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORTH IN	NITEM 14, PURSUANT TO THE A	UTHORITY OF FA	R 43.103(b		s changes in j	paying office	,
C. THIS SUPPLEMENTAL AGREEME	NT IS ENTERED INTO PURSUAN	I TO AUTHORITY	UF:				
D. OTHER (Specify type of modificatio	n and authority)			<u></u>		<u></u>	
E. IMPORTANT: Contractor xis not	, 🔲 is required to sign this do	cument and retur		copies to the issu	uing office.		
14. DESCRIPTION OF AMENDMENT/MODIFIC						asible.)	
Subject: Contract NAS1-2000 Systems	1 - Engineering Design, I	Development.	Installa	tion and Testin	ig of Facil	ity Autor	nation
The purpose of this modification Accordingly, the Contract Scher Assignments (LaRC 52.232-11	edule is changed as follow (1) (JUN 1991). Paragra	vs: Clause B	.4 entitl	ed "Contract F	unding		ontract.
Except as provided herein, all terms and condition	•	•	neretotore /	changed remains un	channed and i	in full force a	nd effect
15A. NAME AND TITLE OF SIGNER (Type or p				OF CONTRACTING			

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	ŕ	CHARLOTTE T. H	IARDY
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authonzed to sign) NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE	30		ARD FORM 30 (Rev. 10-83)
	FIL	ECOPY	

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$7,265,698 amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

An additional amount of \$285,400 obligated under this contract for the payment of fee."

Note: The new amount reflects a funding increase of \$445,577 in cost, from \$6,820,121 to \$7,265,698; and a fee funding increase of \$4,423, from \$280,977 to \$285,400. Estimated funded-through date is June 12, 1998.

#### CONTRACT SUMMARY

Cumulative Authorized tasks thr	<u>u Mod 53 N</u>	Max Potential Contract Total
Hours: 64,895		80,000
Est. Cost: \$6,796,482 (Correct Fixed Fee: <u>231,513</u>	s Mod. 52)	\$8,676,968 <u>285,400</u>
TOTAL \$7,027,995		\$8,962,368
	FUNDING SUMM	ARY
Previous Incremental Funding	Changed by this Modific	ation Revised Amount
Cost: \$6,820,121 Fee: <u>280,977</u>	\$445,577 <u>4,423</u>	\$7,265,698 <u>285,400</u>
TOTAL \$7,101,098	\$450,000	\$7,551,098

#### ACCOUNTING AND APPROPRIATION DATA

P/R: GGH.1709; J/O: M3238 \$450,000 (COMPLETE) - Task 32

TRANSFER FUNDING IN THE AMOUNT OF \$11,271, P/R GGH.1569 FROM TASK 12 TO TASK 18 TRANSFER FUNDING IN THE AMOUNT OF \$24,177, P/R GGI.1077 FROM TASK 17 TO TASK 18

					OMB Appro				
	NDMENT OF SOLICITAT	ION/MODIFICATION C	F CONTI	RACT		1. LUNTRACT ID	CODE	PAGE O	F PAGES
	NDMENT/MODIFICATION NO.	3. EFFECTIVE DATE			ON/PURCH	ASE REQ. NO.	5. PROJE	CT NO. (If a	
	53	JAN 0 8 1998							
6. ISSU		ODE	7. A	DMINIST	ERED BY (If	other than Item 6)	CODE	L	
La Ha	ational Aeronautics and Ingley Research Center Ampton, VA 23681-0001								
B. NAM	E AND ADDRESS OF CONTRACTO	R (No., street, county, State, and 2	Zip Code)	(x)	9A. AME!	IDMENT OF SOLIC	ITATION NO.		
Aĉ	ero Systems Engineering, I	nc.							
	uidyne Facilities Group				9B. DATE	D (SEE ITEM 11)			
	tn: Mr. Tom Holt			1					
	8 E. Filmore Avenue				10A. MO	DIFICATION OF CO	NTRACT/OR	DER NO.	•
•• =	Paul, MN 55107-1289			x	NA	\$1-20001			
					10B. DAT	ED (SEE ITEM 13)		····	
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The purpose of this modification is to increase the estimated cost of the contract. The level of effort and fixed fee remain unchanged. Modification No. 52 provisionally increased the estimated cost by \$1,032,221 from \$5,787,900 to \$6,820,121. The total change in cost for this modification (\$2,889,068) less the provisional increase made by Modification No. 52 (\$1,032,221) is \$1,856,847. The new contract estimated cost amount is increased by \$1,856,847 from \$6,820,121 to \$8,676,968. Therefore, the following changes are made to the contract:

(CONTINUED)

Except as provided herein, all terms and conditions 15A. NAME AND TITLE OF SIGNER (Type or prin		m 9A or 10A, as heretofore changed, remains unchar		
JAMES R. DINKINS MANGES R. DINKINS 1455'T MANAGER - HAMPI		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CHARLOTTE T. HARDY		
15B1 CONTRACTOR/OFFEROR	15C. DATE SIGNED	168. UNITED STATES OF AMERICA	16C. DATE SIGNED	
(Signature of person authorized to sign)	1/8/98	BY Chilt J. Han (Signature of Contracting Officer)	4 1/8/98	
PREVIOUS EDITION UNUSABLE	34	+105 STAND Prescribed by FAR (48 CFF		

NAS1-20001 Modification No. 53 Page 2 of 2

1. Standard From 26, Block 15F <u>Amount and Block 15G</u>. <u>Total Amount of Contract</u> are deleted and replaced with the following:

15F <u>Amount</u>

Est. Cost \$8,676,968 Est. Fee <u>285,400</u>

15G. Total Amount of Contract \$8,962,368

2. Clause B. 2 entitled Estimated Cost and Fixed Fee is changed to read as follows:

"The estimated cost of this contract is \$8,676,968 exclusive of the fixed fee of \$285,400. The total estimated cost and fixed fee is \$8,962,368.

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	CONTRACT SUMMA	<b></b> ΥΥ
<u>Cumulati</u>	ve Authorized Tasks to Mod. 52	Max Potential Contract Total
Hours:	64,895	80,000
	: \$6,796,828 e: 231,513	\$8,676,968 285,400
TOTAL:	\$7,028,341	\$8,962,368
Incremen	tally Funded to Date	
Cost: Fee:	\$6,820,121 <u>280,977</u>	
TOTAL:	\$7,101,098	

AMENDMENT OF SOLICIT	ATION/M	ODIFICATION OF C	ONTRAC		1. CONTRACT ID	CODE	PAGE OF	PAGE
AMENDMENT/MODIFICATION NO.					CHASE REQ. NO.	5. PROJE	CT NO. (If app	_
52		DEC 1 1 1997						
. ISSUED BY		GP	7. ADMINI	STERED BY	(If other than item 6)	CODE		
National Aeronautics an Langley Research Cent Hampton, VA 23681-00	er	Administration						
. NAME AND ADDRESS OF CONTRAC	CTOR (No., str	reet, county, State, and Zip Co	xde) ()	() 9A. AN	MENDMENT OF SOLIC	ITATION NO	•	
Aero Systems Engineering Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-128	-		,	10 <b>A</b> . N	ATED (SEE ITEM 11) MODIFICATION OF CO	INTRACT/OR	IDER NO.	
				108. 0	DATED (SEE ITEM 13)			
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1. Standard From 26, Block SF <u>Amount and Block 15G. Total Amount of Contract</u> are deleted and replaced with the following:

15F Amount

Est. Cost	\$6,820,121
Est. Fee	<u>285,400</u>

15G. Total Amount of Contract \$7,105,521

2. Clause B. 2 entitled Estimated Cost and Fixed Fee is changed to read as follows:

"The estimated cost of this contract is \$6,820,121 exclusive of the fixed fee of \$285,400. The total estimated cost and fixed fee is \$7,105,521.

3. Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraphs A and B are restated as follows:

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$6,820,121. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$59,131 is obligated under this contract for the payment of fee."

Note: The new amount reflects a funding increase of \$1,206,751 in cost, from \$5,613,370 to \$6,820,121; and a fee funding increase of \$59,131, from \$221,846 to \$280,977. Estimated funded-through date is March 1, 1998.

#### CONTRACT SUMMARY

Present Cumulative (Task) Value, t	o Mod 51 Max P	otential Contract Total
Hours: _ 44,232 Est. Cost: \$4,345,678		80,000
Fixed Fee: 157,798		285,400
	FUNDING SUMMARY	
Previously Funded	Changed by this Modification	Revised Amount
Cost: \$5,613,370	\$1,206,751	\$6,820,121
Fee: 221,846	59,131	280,977
TOTAL \$5,835,216	\$1,265,882	\$7,101,098
ACCOU	JNTING AND APPROPRIATIO	N DATA
P/R: GGK 1411 J/O: C261201 \$	1,265,882 (complete) - Task 3	1

AMENDMENT OF SOLICITAT	ION/MOE	DIFICATIO		UNIKACI				PAGE O	2
AMENDMENT/MODIFICATION NO. 51	3. Ef	FECTIVE DAT			ION/PUR	CHASE REQ. NO.	5. PROJE	CTNO. (If a	pplicable)
	ODE	GP GP	1971	7. ADMINIST	ERED BY	(If other than item 6)	CODE		
National Aeronautics and Langley Research Center Hampton, VA 23681-0001	•	dministra	tion						
NAME AND ADDRESS OF CONTRACTO	DR (No., street	, county, State,	, and Zip Co	de) (x)	9A. AI	MENDMENT OF SOLI	CITATION NO		
Aero Systems Engineering. I	Inc.								
Fluidyne Facilities Group					9B. D.	TED (SEE ITEM 11)			
Attn: Mr. Tom Holt									
358 E, Filmore Avenue					10A. 1	ODIFICATION OF C	ONTRACT/OR	DER NO.	
St. Paul, MN 55107-1289				x	N	AS1-20001			
					10B. (	DATED (SEE ITEM 13	<i>y</i>		
CODE	FACILITY C	ODE			4	-30-97			
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Except as provided herein, all terms and conditions o 15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE	OF CONTRACTING OFFICER	(Type or print)	
	C	HARLOTTE T. HAR	DY	
158. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES O BY	to 1. Hours	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of	Contracting Officer)	
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE	3 	COPY	STANĎARD Prescribed by GSA FAR (48 CFR) 53.24	FORM 30 (Rev. 10-83) 3

"A. In accordance with the Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$5,613,370 amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

An additional amount of \$221,846 obligated under this contract for the payment of fee."

Note: The new amount reflects a funding increase of \$14,299 in cost, from \$5,599,071 to \$5,613,370; and a fee funding increase of \$701, from \$221,145 to \$221,846. Estimated funded-through date is December 10, 1997.

#### CONTRACT SUMMARY

Present Cumulative (Task) Value, to Mod 50	Max Potential Contract Total
Hours: 44,213	80,000 \$5,787,900
Est. Cost: \$4,318,219	\$5,787,900
Fixed Fee: 157.743	285,400

#### FUNDING SUMMARY

Previou	isly Funded	Changed by this Modification	<b>Revised Amount</b>
Cost: Fee:	\$5,599,071 221,145	\$14,299 701	\$5,613,370 221,846
TOTAL	\$5,820,216	\$15,000	\$5,835,216

#### ACCOUNTING AND APPROPRIATION DATA

P/R: GGK.1400 J/O: M3701 \$15,000 (COMPLETE) - Task 24

TRANSFER FUNDING IN THE AMOUNT OF \$3,050, P/R GGD.1031 FROM TASK 9 TO TASK 18 TRANSFER FUNDING IN THE AMOUNT OF \$12,000, P/R GGH.1569 FROM TASK 12 TO TASK 18 TRANSFER FUNDING IN THE AMOUNT OF \$69, P/R GGH.1569 FROM TASK 12 TO TASK 14

				OMB App.	2700-0042	0005	
MENDMENT OF SOLICITA		DIFICATION OF C	ONTRACT		1. CONTRACT I		PAGE OF PAGE
AMENDMENT/MODIFICATION NO.		EFFECTIVE DATE			ASE REQ. NO.		CT NO. (If applicable
National Aeronautics and Langley Research Cente	•	GP Administration	7. ADMINISTI	ERED BY (II	other than item 6)	CODE	
Hampton, VA 23681-000							
. NAME AND ADDRESS OF CONTRACT	OR (No., stree	et, county, State, and Zip C	ode) (X)	9A. AME	NDMENT OF SOLIC	CITATION NO	
Aero Systems Engineering. Fluidyne Facilities Group	Inc.			98. DAT	ED ( <i>SEE ITEM 11</i> )		
Attn: Mr. Tom Holt				104 MO	DIFICATION OF CO		
358 E. Filmore Avenue			x		S1-20001		
St. Paul, MN 55107-1289			^		51-20001		
				108. DA	TED (SEE ITEM 13)	)	
CODE	FACILITY				0-97		
11.	THIS ITEM	ONLY APPLIES TO	AMENDMEN	TS OF S	OLICITATION	S	
	Appropria ITEM APF ODIFIES TI SUED PURSU	Ation Data PLIES ONLY TO MO HE CONTRACT/OR IANT TO: (Specify authorit DER IS MODIFIED TO REF 14, PURSUANT TO THE A	DER NO. AS ) THE CHANGE ELECT THE ADMI UTHORITY OF F/	DESCRIE S SET FOR NISTRATIVI AR 43.103(b	BED IN ITEM 14 ARE	4. MADE IN TH	
D. OTHER (Specify type of mod	lification and a	uthority).			,		
E. IMPORTANT: Contractor		is required to sign this do			copies to the is:		
14. DESCRIPTION OF AMENDMENT/M Subject: Contract NAS1-2 Systems The purpose of this modif Accordingly, the Contract Assignments (LaRC 52.2	20001 - En ication is t Schedule 32-111) (JI	ngineering Design, I o add incremental f is changed as follow UN 1991). Paragra (CON	Development funding pursu ws: Clause l uphs A and B <b>iTINUED</b> )	. Installa iant to th 3.4 entitl are resta	tion and Testi e contract fun led "Contract l ated as follows	ng of Faci ding claus Funding - s:	llity Automatio se of the contra - Task
Except as provided herein, all terms and 15A. NAME AND TITLE OF SIGNER (7)	pe or print)	le document reterenced in i	16A. NAME	AND TITLE	OF CONTRACTING	OFFICER (7	Type or print)
					HARLOTTE	T. HARD	
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	168. UNITED	STATES C	OF AMERICA	, T	16C. DATE SIGNED

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15C. DATE SIGNED	168. UNITED STATES OF AMERICA	16C. DATE SIGNED
	BY CLETT J.H.	5/25/97
1		
30	105 💓 STAND	ARD FORM 30 (Rev. 10-83)
FILE CO	Prescribed	by GSA
	·	BY (Signature of Contracting Officer)

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$5,599,071 amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

An additional amount of \$221,145 obligated under this contract for the payment of fee."

Note: The new amount reflects a funding increase of \$18,732 in cost, from \$5,580,339 to \$5,599,071; and a fee funding increase of \$918, from \$220,227 to \$221,145. Estimated funded-through date remains at November 30, 1997.

#### CONTRACT SUMMARY

Present Cumulative (Task) Value, to Mod 50	Max Potential
Flesent Cumulative (Task) Value, to woo 50	Max Folenila

Hours: 43,563 Est. Cost: \$4,220,538 Fixed Fee: 155,411

TOTAL \$5,800,566

Max Potential Contract Total

80,000 \$5,787,900 285,400

\$5,820,216

#### FUNDING SUMMARY

Previou	sly Funded	Changed by this Modification	Revised Amount
Cost:	\$5,580,339	\$18,732	\$5,599,071
Fee:	220,227	918	221,145

#### ACCOUNTING AND APPROPRIATION DATA

\$19,650

P/R: GGJ.1397 J/O:	C129002 \$5,150	(COMPLETE)	- Task 28
P/R: GGH.1694 J/O:	C295702 \$14,500	(COMPLETE)	- Task 30

NAS1-20001 Mod. 50

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AMENDMENT OF SOLICITAT	ON/MODIFICATION OF C	ONTRAC			1. CONTRACT ID	CODE	PAGE O	PAGE
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE		-	PURCH	ASE REQ. NO.	5. PROJE	TNO. (If ap	
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5. ISSUED BY CO		7. AUMINS	SIEREL	) BY (II	other than item 6)	CODE	L	·········
National Aeronautics and Langley Research Center Hampton, VA 23681-0001	Space Administration							
. NAME AND ADDRESS OF CONTRACTOR	R (No., street, county, State, and Zip Co	ode) ()	() 9A	. AME	NDMENT OF SOLIC	ITATION NO.		
Aero Systems Engineering, Ir	DC.							
Fluidyne Facilities Group			98	. DATE	D (SEE ITEM 11)			·
Atm: Mr. Tom Holt								
358 E. Filmore Avenue			10/	A. MO	DIFICATION OF CO	NTRACT/OR	DER NO.	
St. Paul, MN 55107-1289		2	c	NA	S1-20001			
			10	B. DAI	ED (SEE ITEM 13)			
CODE	FACILITY CODE			4-3	0-97			
11. TH	IS ITEM ONLY APPLIES TO	AMENDME	INTS	OF S	OLICITATIONS	5		
makes reference to the solicitation and this ar 12. ACCOUNTING AND APPROPRIATION I See Page 2 Accounting and A	DATA (If required)	opening hour a	nd date :	specifie	xd.	· • •		
13. THIS IT	TEM APPLIES ONLY TO MOI					•		
	DIFIES THE CONTRACT/ORD			- • • • •		• • • • • • • • • • •		
(x) A. THIS CHANGE ORDER IS ISSU NO. IN ITEM 10A.	ED PURSUANT TO: (Specify authority	) THE CHANG	ies set	FORT	'H IN ITEM 14 ARE	MADE IN THE	CONTRAC	FORD
appropriation date, etc.) SET FORT	TRACT/ORDER IS MODIFIED TO REF H IN ITEM 14, PURSUANT TO THE AU	JTHORITY OF	FAR 43		•	s changes in j	paying office	
C. THIS SUPPLEMENTAL AGREE	MENT IS ENTERED INTO PURSUANT	TO AUTHORI	TY OF:					
D. OTHER_(Specify type of modific	ation and authority)							
E. IMPORTANT: Contractor xis	not, 🔲 is required to sign this do	cument and r	aturn		copies to the iss			. <u> </u>
14. DESCRIPTION OF AMENDMENT/MODI						•	asible.)	
Subject: Contract NAS1-200 Systems	001 - Engineering Design, D	Developme	nt, Ins	tallat	ion and Testin	ng of Facil	ity Autor	natio
The purpose of this modifica Accordingly, the Contract So						-		ontra
Assignments (LaRC 52.232								
-	(aa)							

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(CONTINUED)

NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE	3 	-105 STANDARI Prescribed by GS/ FAR (48 CFR) 53.	
(Signature of person authorized to sign)		(Signature of Contracting Officer)	
		BY Clubt J. Hang	9-22.97
158. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
	•		
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICE	R (Type or print)
Except as provided herein, all terms and conditions of t	he document referenced in Ite	m 9A or 10A, as heretofore changed, remains unchanged	

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$5,580,339. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

An additional amount of \$220,227 is obligated under this contract for the payment of fee."

Note: The new amount reflects a funding increase of \$1,331,173 in cost, from \$4,249,166 to \$5,580,339; and a fee funding increase of \$65,227, from \$155,000 to \$220,227. Estimated funded-through date is changed to November 30, 1997.

#### CONTRACT SUMMARY

Present Cumulative (Task) Value, to Mod 49 Hours: 43,249

Est. Cost: \$4,201,915 Fixed Fee: 154,291 Max Potential Contract Total

80,000 \$5,787,900 285,400

#### FUNDING SUMMARY

Changed by this Modification

Previously Funded

Cost: \$4,249,166 Fee: 155,000

#### \$1,331,173 65,227

\$5,580,339 220,227

\$5,800,566

**Revised Amount** 

TOTAL \$4,404,166

# \$1,396,400

ACCOUNTING AND APPROPRIATION DATA

P/R: GGK.1382 \$ 30,000 (COMPLETE) - Task 24 P/R: GGK.1387 \$ 5,000 (COMPLETE) - Task 26 P/R: GGH.1690 \$1,361,400 (COMPLETE) - Task 27

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	NDMENT OF SOLICITA					1. CONTRACT O CODE		PAGE O	F PAGES
	ENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE			ON/PURCHASE REQ. NO.	5. PRO	, JECT NO.	(11 applicable
	48	·	8/7/97			see below			····
6. 155	UED BY	3000		- 7. ADMI	NIST	ERED BY (If other than Item 6)	CODE		
L	lational Aeronautics and angley Research Center lampton, VA 23681-000	•	dministration						
8. NA	ME AND ADDRESS OF CONTRAC	CTOR (No., s	treet, county, State, and Zip C	ode)	(x)	9A. AMENDMENT OF SOL		ю.	
				, F	<u>\~/</u>				
	Aero Systems Engineeri	ng, Inc.							
	Fluidyne Facilities Group Attn: Mr. Tom Holt	ָּסַ ס				98. DATED (SEE ITEM 11)		· · · · · · · · · · · · · · · · · · ·	
	358 E. Filmore Avenue			Г		10A. MODIFICATION OF C	ONTRACT/C	RDER NO	<b>)</b> .
	St. Paul, MN 55107-12	289			х	NAS1-20001			
						10B. DATED (SEE ITEM 13	)		
CODE			TY CODE			4-30-93	-		
	11. Ti	HIS ITEM	ONLY APPLIES TO	AMEND	NEN	ITS OF SOLICITATIC	NS		
	The above numbered solicitation is						extended,		ot extended.
Offers	must acknowledge receipt of this a	imendment p	rior to the hour and date specif	fied in the sol	icilati	on or as amended, by one of th	e following r	nethods:	`
nakes 12. Au G	separate letter or telegram which is IVED AT THE PLACE DESIGNATI R. If by virtue of this amendment y reference to the solicitation and th CCOUNTING AND APPROPRIATI GGH.1682, \$26,000 (COI GGK.1358, \$6,500 (COM	ou desire to ( is <u>amendme</u> ON DATA (If MPLETE) PLETE)	shange an offer already submit nt, and is received prior to the c required) ); GGJ.1369, \$30,000	ted, such cha <u>opening hour</u> ) (COMP	and o	may be made by telegram or le <u>tate specified.</u> E); GGJ.1379, \$10,0(	iter, provided 00 (ČOM	d each tele	egram or lette
			LIES ONLY TO MOD						
(2)	A. THIS CHANGE ORDER IS I	DIFIES T	HE CONTRACT/ORD	DER NO.	AS	DESCRIBED IN ITEN	14.		DACT
(x)	ORDER NO. IN ITEM 10A.	330ED POR			VGE	SET FORTHIN TEM 14 ARE			RACI
Х	B. THE ABOVE NUMBERED C appropriation date, etc.) SET F(	ONTRACT/C	ORDER IS MODIFIED TO REF M 14, PURSUANT TO THE AL	LECT THE A	DMIN F FA	NISTRATIVE CHANGES (such R 43.103(b).	as changes	in paying (	office,
	C. THIS SUPPLEMENTAL AG	REEMENTIS	ENTERED INTO PURSUANT	TO AUTHO	RITY	OF:			
	D. OTHER (Specify type of mo	diffication and	authority)			· · · · · · · · · · · · · · · · · · ·			
	D. OTTER (specify type of no		auuomy)						
E. IN	PORTANT: Contractor Xis no	ot, is requi	red to sign this document a	and return		copiy to the issuing offic	æ.		
14. D	ESCRIPTION OF AMENDMENT/N	ODIFICATIO	N (Organized by UCF section	headings, ind	ludin	g solicitation/contract subject n	atter where	(easibie.)	,
fı	he purpose of this modif unding, which was previo	ously obli	gated, between existir	ng Tasks.			-		
(1	.ccordingly, the Contract _aRC 52.232.111) (JUN t as provided herein, all terms and	1991), P CONTI	aragraphs A and B an NUED ON PAGE 2	e hereby	revi	sed as follows:		-	
	NAME AND TITLE OF SIGNER (7)			16A. NAM	AE AN	ND TITLE OF CONTRACTING			
158. (			15C. DATE SIGNED	вү _	1	SPATES OF AMERICA	te zl	16C. DAT 8/7	te signed 197
NSN 7	(Signature of person authorized ) /540-01-152-8070	u sagin)	l	<u> </u>	Jog	nature of Contracting Officer)		1 30 /9-	v 10-831
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#### NAS1-20001 Modification No.48

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$4,249,166. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$155,000 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a funding increase of \$64,500 in cost, from \$4,184,666 to \$4,249,166; and a fee funding increase of \$8,000, from \$147,000 to \$155,000. Estimated funded-through date is changed to September 30, 1997.

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#### CONTRACT SUMMARY

Present Cum. (Task) Value, to Mod 48

Hours: 42,130 Est. Cost: \$4,159,957 Fixed Fee: \$150,299 Max Potential Contract Total

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80,000 \$5,787,900 \$285,400

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#### FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount		
Cost \$4,184,666	\$ 64,500	\$4,249,166		
Fee \$147,000	\$ 8,000	\$ 155,000		
Total \$4,331,666	\$ 72,500	\$4,404,166		

#### ACCOUNTING AND APPROPRIATION DATA

PR: GGH.1682, \$26,000, Task 13 GGJ.1369, \$30,000, Task 29 GGJ.1379, \$10,000, Task 29 GGK.1358, \$6,500, Task 26

Transfer funding in the amount of \$25,000, PR GGH.1506, from Task 9 to Task 18.

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La	ational Aeronautics and angley Research Center ampton, VA 23681-000		Administration						
8. NAM	ME AND ADDRESS OF CONTRA	CTOR (No.,	street, county, State, and Zip C	ode)	(x)	9A. AMENDMENT OF SOLIC	ITATION NO	) <u> </u>	
	Aero Systems Engineeri	ng loc							
	Fluidyne Facilities Group					9B. DATED (SEE ITEM 11)	·		
	Attn: Mr. Tom Holt	•							
	358 E. Filmore Avenue					10A. MODIFICATION OF CO	NTRACT/OF	DER NO.	
:	St. Paul, MN 55107-12	289				NAS1-20001			
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<u></u>						ITS OF SOLICITATION	IS		
Offers	The above numbered solicitation is must acknowledge receipt of this a	mended a mended a	as set forth in item 14. The hour prior to the hour and date specif	and date spe fied in the soli	ecifie icitati	d for receipt of Offers [] is e on or as amended, by one of the	xtended, [	is not extended ethods:	
12. AC	IT MOI	ON DATA ( OMPLET TEM AP DIFIES 1	(f required) E); GGK.1332, \$10,00 PLIES ONLY TO MOE THE CONTRACT/ORD	00 (COMI DIFICATIO ER NO. /	PLE DNS AS I	date specified.	DERS,		
X		ONTRACT	ORDER IS MODIFIED TO REF		DMIN	ISTRATIVE CHANGES (such as	s changes in	naving office	
	appropriation date, etc.) SET FC		EM 14, PURSUANT TO THE AL	THORITY O	F FAI	R 43.103(b).		paying onles,	
	C. THIS SUPPLEMENTAL AGI	REEMENT	IS ENTERED INTO PURSUANT	TO AUTHO	RITY	OF:			
-	D. OTHER (Specify type of mod	lification an	d authority)						
E. IM	PORTANT: Contractor Xis no	t, is requ	uired to sign this document a	ind return		copiy to the issuing office			
14. DE	SCRIPTION OF AMENDMENT/M	ODIFICATI	ON (Organized by UCF section	headings, inc	ludin	g solicitation/contract subject mai	ter where fe	asible.)	
Tì fu	ne purpose of this modif nding, which was previc	ication is iusly obl	s to: add \$309,000 in t igated, between existir	funding fo ng Tasks.	or co	ost, and \$4,000 in fundi	ng for fe	e; and to mo	
(L	ccordingly, the Contract aRC 52.232.111) (JUN	1991), F CONT	Paragraphs A and B are INUED ON PAGE 2	e hereby i	revi	sed as follows:		-	
Except	as provided herein, all terms and ( IAME AND TITLE OF SIGNER (7)	pe or print)	or the document referenced in Ite			eretofore changed, remains unch ID TITLE OF CONTRACTING O			
				Stan	ley	W. Ward			
158. C	ONTRACTOR/OFFEROR	· <u> </u>	15C. DATE SIGNED	168. UNIT	TED S	STATES OF AMERICA	1 ]	6C. DATE SIGNED	
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#### Page 2 of 2

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#### NAS1-20001 Modification No.47

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$4,184,666. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$147,000 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a funding increase of \$309,000 in cost, from \$3,875,666 to \$4,184,666; and a fee funding increase of \$4,000, from \$143,000 to \$147,000. Estimated funded-through date remains July 1, 1997.

#### CONTRACT SUMMARY

Present Cum. (Task) Value, to Mod 47

Hours: 40,952 Est. Cost: \$4,073,248 Fixed Fee: \$146,097 Max Potential Contract Total

80,000 \$5,787,900 \$285,400

#### FUNDING SUMMARY

 Previously Funded
 Changed by This Mod
 Revised Amount

 Cost \$3,875,666
 \$ 309,000
 \$4,184,666

 Fee \$143,000
 \$ 4,000
 \$ 147,000

 Total \$4,018,666
 \$ 313,000
 \$4,331,666

#### ACCOUNTING AND APPROPRIATION DATA

PR: GGH.1669, \$303,000 (complete), Task 27 GGK.1332, \$10,000 (complete), Task 28

Transfer funding in the total amount of \$30,201, PR GGD.1031, from Task 9, as follows:

\$135	to Task 6
\$72	to Task 7
\$875	to Task 14
\$29,119	to Task 16

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La	ational Aeronautics and Spac angley Research Center ampton, VA 23681-0001	e Administration						
8. NAN	ME AND ADDRESS OF CONTRACTOR (A	lo., street, county, State, and Zip Co	ode) (x	Д	9A. AMENDMENT OF SOLIC	ITATION NO	).	
	Aero Systems Engineering, In Fluidyne Facilities Group	С.		+	9B. DATED (SEE ITEM 11)			
	Attn: Mr. Tom Holt			_		NTDA OTION	050 11	
	358 E. Filmore Avenue				10A. MODIFICATION OF CO	NTRACT/OR	DER NO	<b>)</b> .
•	St. Paul, MN 55107-1289		x		NAS1-20001			
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14. DE T	IPORTANT: Contractor Xis not. is in ESCRIPTION OF AMENDMENT/MODIFIC	ATION (Organized by UCF section n is to add \$261,610 in fu	headings, inclui	os	t, and \$6,000 in fundir	atter where fe		
(۱	ccordingly, the Contract Sche _aRC 52.232.111) (JUN 1991 CO t as provided herein, all terms and conditio	), Paragraphs A and B ar NTINUED ON PAGE 2	e hereby re	evi	sed as follows:			
	NAME AND TITLE OF SIGNER (Type or p		16A. NAME	AN	D TITLE OF CONTRACTING C W. Ward			
158. (	CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITE	D S	MATES OF AMERICA	6.0	16C. DA	TE SIGNED
	(Signature of person authorized to sign)		$\Gamma T$	Śig	hature of Contracting Officer)		-//-	147
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### NAS1-20001 Modification No.46

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$3,875,666. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$143,000 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a funding increase of \$267,610 in cost, from \$3,614,056 to \$3,875,666; and a fee funding increase of \$6,000, from \$137,000 to \$143,000. Estimated funded-through date is revised to be July 1, 1997.

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## CONTRACT SUMMARY

Present Cum. (Task) Value, to Mod 46

Hours: 39,934 Est. Cost: \$3,768,230 Fixed Fee: \$142,465 Max Potential Contract Total

80,000 \$5,787,900 \$285,400

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## FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount		
Cost \$3,614,056	\$ 261,610	\$3,875,666		
Fee \$137,000	\$ 6,000	\$ 143,000		
Total \$3,751,056	\$ 267,610	\$4,018,666		

# ACCOUNTING AND APPROPRIATION DATA

PR: GGH.1664, \$265,000 (complete), Task 23 GGK6.1051, \$2,610 (complete), Task 26

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			M	c) 4)	MB A	oproval #: 2, 0042		
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8. NAN	IE AND ADDRESS OF CONTRACTO	R (No., si	treet, county, State, and Zip Co	de)	(x)	9A. AMENDMENT OF SOLIC	ITATION NO.	
F / C	Aero Systems Engineering Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289			-		98. DATED (SEE ITEM 11) 10A. MODIFICATION OF CO NAS1-20001	NTRACT/ORD	DER NO.
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(L Except	as provided herein, all terms and con-	91), Pa CONTII ditions of t	ragraphs A and B are NUED ON PAGE 2	n 9A or 104	revi A, as f	sed as follows: eretofore changed, remains unc	hanged and in	full force and effect.
15A. N	AME AND TITLE OF SIGNER (Type	or print)		_		W. Ward	FFICER (Type	e or print)
	ONTRACTOR/OFFEROR	ŋn)	15C. DATE SIGNED	вч 🪄		Artic OF AMERICA	16	c. date signed 3/3/97
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"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$3,614,056. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$137,000 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a funding increase of \$28,000 in cost, from \$3,586,056 to \$3,614,056; fee funding of \$137,000 remains unchanged. Estimated funded-through date remains May 15, 1997.

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## CONTRACT SUMMARY

Present Cum. (Task) Value, to Mod 45

Hours: 37,954 Est. Cost: \$3,479,793 Fixed Fee: \$135,400

## Max Potential Contract Total

80,000 \$5,787,900 \$285,400

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### FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount		
Cost \$3,586,056	\$ 28,000	\$3,614,056		
Fee \$137,000	\$ 0	\$137,000		
Total \$3,723,056	\$ 28,000	\$3,751,056		

# ACCOUNTING AND APPROPRIATION DATA

PR DAE.1021, \$12,000 (complete), Task 25 PR GGH.1659, \$16,000 (complete), Task 13

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п	ampton, VA 23681-0	001						
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			•					
	Aero Systems Engine	ering, Inc.						
	Fluidyne Facilities Gro	-			98. DATED (SEE ITE	EM 11)		
	Attn: Mr. Tom Holt	•						
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ini di	completing Items 8 and 15, an separate letter or telegram whi	ch includes a rele	copies of the amendment; (b erence to the solicitation and a	mendment num	Dens FAILURE OF YOUR	ACKNOWLED	GEMENTIC	) BE
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tl	ne various Tasks issu	ed under the	e subject contract. Fu	unding whic	h is deobligated fro	om Task 10	) is concu	urrently
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158.	CONTRACTOR/OFFEROR		15C. DATE SIGNED	168. UNITE	D STATE OF AMERICA		16C. D.	ATE SIGNED

15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	168. UNITED STATE OF AMERIC BY	11. last	16C. DATE SIGNED 2/13/97
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	358 E. Filmore Avenue				10A. MODIFICATION OF CO	NTRACT/ORDE	R NO	
	St. Paul, MN 55107-1	289		x	NAS1-20001	÷		
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makes 12. AC	IT MO A. THIS CHANGE ORDER IS ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED (	TEM AP DIFIES T ISSUED PUI	Int, and is received prior to the of (required) GGI.2025, \$13,000 (cr PLIES ONLY TO MOD THE CONTRACT/ORD RSUANT TO: (Specify authority)	DENING HOUT AND DENING HOUT AND ER NO. AS THE CHANGE	S OF CONTRACTS/OF DESCRIBED IN ITEM S SET FORTH IN ITEM 14 ARE	RDERS, 14. MADE IN THE C	CONTR	RACT
			S ENTERED INTO PURSUANT					
	D. OTHER (Specify type of mo	dification an	d authority)					
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15B. C	ONTRACTOR/OFFEROR		15C. DATE SIGNED	вү 🦯	STATES OF AMERICA	and 1/	. DATE	SIGNED
NCN T	(Signature of person authorized	to sign)	l		gnature of Contracting Officer)		<u></u>	10.822
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### NAS1-20001 Modification No.43

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$3,586,956. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$137,000 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a funding increase of \$46,750 in cost, from \$3,539,306 to \$3,586,056, and an increase in fee funding of \$1,000, from \$136,000 to \$137,000. Estimated funded-through date remains May 15, 1997.

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# CONTRACT SUMMARY

Present Cum. (Task) Value, to Mod 43

Max Potential Contract Total

Hours: 37,894 Est. Cost: \$3,433,359 Fixed Fee: \$135,187 80,000 \$5,787,900 \$285,400

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## FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount		
Cost \$3,539,306 Fee \$136,000	\$ 46,750 \$1,000	\$3,586,056 \$137,000		
Total \$3,675,306	\$ 47,750	\$3,723,056		

## ACCOUNTING AND APPROPRIATION DATA

PR GGH.1654, \$34,750 (complete), Task 23 PR GGI.2025, \$13,000 (complete), Task 21

	NAGI-ZOCCI Nodulz- Modulz-					
	Nod-12-		3 Ap	proval #: 27042		
AMENDMENT OF SOLICITATION		NTRACT	•	1. CONTRACT ID CODE		PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 42	3. EFFECTIVE DATE 12/27/96			ON/PURCHASE REQ. NO. See below	5. PRO	DJECT NO. (If applicable)
6. ISSUED BY CODE	12/2//90	7. ADMIN	IST	RED BY (If other than Item 6)	COD	ε
National Aeronautics and Space A Langley Research Center Hampton, VA 23681-0001	Administration					
8. NAME AND ADDRESS OF CONTRACTOR (No.	, street, county, State, and Zip Co	de) ()	x)	9A. AMENDMENT OF SOLIC	CITATION	NO.
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289				98. DATED (SEE ITEM 11) 10A. MODIFICATION OF CC	DNTRACT	ORDER NO.
St. Paul, WIN 55107-1289			x	NAS1-20001		
				10B. DATED (SEE ITEM 13)		
				4-30-93	<u>-</u>	· .
11. THIS ITE	MONLY APPLIES TO A	****			NS	is not extended.
X         B. THE ABOVE NUMBERED CONTRACT appropriation date, etc.) SET FORTH IN IT           C. THIS SUPPLEMENTAL AGREEMENT	ent, and is received prior to the op (If required) GGH.1653, \$40,000 (cd PLIES ONLY TO MOD THE CONTRACT/ORDE JRSUANT TO: (Specify authority) (ORDER IS MODIFIED TO REFL EM 14, PURSUANT TO THE AU IS ENTERED INTO PURSUANT	ECT THE AD	NS SES MIN FAF	OF CONTRACTS/OF DESCRIBED IN ITEM SET FORTH IN ITEM 14 ARE ISTRATIVE CHANGES (such a 243.103(b).	RDERS 14. MADE IN	, THE CONTRACT
D. OTHER (Specify type of modification and	nd authority)					
E. IMPORTANT: Contractor Xis not, is req 14. DESCRIPTION OF AMENDMENT/MODIFICAT The purpose of this modification i	ION (Organized by UCF section h	eadings, inclu	-		alter when	-
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), I CON Except as provided herein, all terms and conditions 15A. NAME AND TITLE OF SIGNER (Type or print	Paragraphs A and B are TINUED ON PAGE 2 of the document referenced in Iter	n 9A or 10A,	evi: as h E AN	sed as follows:	changed a	nd in full force and effect.
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITE		THES OF AMERICA	rl	16C. DATE SIGNED
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE	30-		3'	STAND/ Prescribe		1 <b>M 30</b> (Rev. 10-83) 13

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### NAS1-20001 Modification No.42

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$3,539,306. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$136,000 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a funding increase of \$82,530 in cost, from \$3,456,776 to \$3,539,306,and an increase in fee funding of \$7,470, from \$125,530 to \$136,000. Estimated funded-through date remains May 15, 1997.

## CONTRACT SUMMARY

Present Value Thru Mod 42

Hours: 37,854 Est. Cost: \$3,420,359 Fixed Fee: \$135,044

## Max Potential Contract Total

80,000 \$5,787,900 \$285,400

1

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## FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount
Cost \$3,456,776	\$ 82,530	\$3,539,306
Fee \$128,530	\$7,470	\$136,000
Total \$3,585,306	\$ 90,000	\$3,675,306

### ACCOUNTING AND APPROPRIATION DATA

PR GGK.1293, \$50,000 (complete), Task 24 PR GGH.1653, \$40,000 (complete), Task 19

\` \	and File 2000 Avail 41	n,				
	Ava) 41	OMB A	pproval #: 1 -0042	PAGE OF PAGES		
AMENDMENT OF SOLICITATION/MOL				1 2		
2. AMENDMENT/MODIFICATION NO. 3. 1 41	EFFECTIVE DATE 12/16/96	4. REQUISIT	ION/PURCHASE REQ. NO. See below	5. PROJECT NO. (If applicable)		
6. ISSUED BY CODE		7. ADMINIST	ERED BY (If other than Item 6)	CODE		
National Aeronautics and Space Adn Langley Research Center Hampton, VA 23681-0001	ninistration					
8. NAME AND ADDRESS OF CONTRACTOR (No., stre	et, county, State, and Zip Co	de) (x)	9A. AMENDMENT OF SOLICI	TATION NO.		
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt			98. DATED (SEE ITEM 11)	·		
358 E. Filmore Avenue			10A. MODIFICATION OF CON	TRACT/ORDER NO.		
St. Paul, MN 55107-1289		x	NAS1-20001			
CODE FACILITY	CODE		10B. DATED (SEE ITEM 13)			
			4-30-93 NTS OF SOLICITATION	<u> </u>		
The above numbered solicitation is amended as se				tended, is not extended.		
IT MODIFIES THE         (x)       A. THIS CHANGE ORDER IS ISSUED PURSUORDER NO. IN ITEM 10A.         X       B. THE ABOVE NUMBERED CONTRACT/OR appropriation date, etc.) SET FORTH IN ITEM         C. THIS SUPPLEMENTAL AGREEMENT IS E	and is received prior to the or quired) GI.2008, (\$105,000) IES ONLY TO MOD E CONTRACT/ORDI JANT TO: (Specify authority) DER IS MODIFIED TO REFL 14, PURSUANT TO THE AU NTERED INTO PURSUANT	Complete) (Complete) IFICATION ER NO. AS THE CHANGE ECT THE ADMI THORITY OF F	Aate specified. S OF CONTRACTS/OR DESCRIBED IN ITEM 1 S SET FORTH IN ITEM 14 ARE N NISTRATIVE CHANGES (such as NR 43.103(b).	DERS, 4. IADE IN THE CONTRACT		
D. OTHER (Specify type of modification and au	ithority)					
E. IMPORTANT: Contractor Xis not, is required 14. DESCRIPTION OF AMENDMENT/MODIFICATION	(Organized by UCF section h	oadings, includi		ter where leasible.)		
The purpose of this modification is to increase of \$35,000 for cost.				· · · · · · · · · · · · · · · · · · ·		
	agraphs À and B are UED ON PAGE 2	hereby rev	vised as follows:			
Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print)	e document referenced in Iter	16A. NAME A	heretofore changed, remains unch ND TITLE OF CONTRACTING OF Y W. Ward	FFICER (Type or print)		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	168. UNITED	ETATES OF AMERICA	16C. DATE SIGNED		
(Signature of person authorized to sign)	1		gnature of Contracting Officer)	14/16/96		
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE	30-	105	STANDAI Prescribed FAR (48 Cf			

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### NAS1-20001 Modification No.41

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$3,456,776. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$128,530 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a net funding increase of \$35,000 in cost, from \$3,421,776 to \$3,456,776. Fee funding remains unchanged at \$128,530. Estimated funded-through date remains May 15, 1997.

## CONTRACT SUMMARY

Present Value Thru Mod 41

Hours: 32,432 Est. Cost: \$3,263,019 Fixed Fee: \$125,519

### Max Potential Contract Total

80,000 \$5,787,900 \$285,400

3

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# FUNDING SUMMARY

Previou	sly Funded	y Funded Changed by This Mod	
Fee	3,421,776	\$ 35,000	\$3,456,776
	\$128,530	\$0	\$128,530
	3,550,306	\$ 35,000	\$3,585,306

## ACCOUNTING AND APPROPRIATION DATA

PR GGH.1285, \$140,000 (complete), Task 24 PR GGI. 2009, (\$135,000) (complete), Task 21

ASPSI- 20001, Avel	40
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MENDMENT OF SOLICITATION/N			Approval #: )-0042	
		NTRACT	1. CONTRACT ID CODE	PAGE OF PAGES
	3. EFFECTIVE DATE		TION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable
	11/13/96	7 A CANINIS	See below TERED BY (If other than Item 6)	CODE
National Aeronautics and Space	Administration			
Langley Research Center				
Hampton, VA 23681-0001				
•				
NAME AND ADDRESS OF CONTRACTOR (No.	, street, county, State, and Zip Co	xde) (x)	9A. AMENDMENT OF SOLIC	ITATION NO.
Aero Systems Engineering, Inc.				
Fluidyne Facilities Group			9B. DATED (SEE ITEM 11)	
Attn: Mr. Tom Holt				
358 E. Filmore Avenue			10A. MODIFICATION OF CO	NTRACT/ORDER NO.
St. Paul, MN 55107-1289			NAS1-20001	
		X	10B. DATED (SEE ITEM 13)	
			4-30-93 NTS OF SOLICITATION	
The above numbered solicitation is amended fiers must acknowledge receipt of this amendment	as set forth in Item 14. The hour t prior to the hour and date specifi	and date specified in the solicitation	ied for receipt of Offers in is e ition or as amended, by one of the	xtended, is not extended. following methods:
) By completing Items 8 and 15, and returning	copies of the amendment; (b)	By acknowledg	ing receipt of this amendment on e	ach copy of the offer submitted; (
) By separate letter or telegram which includes a n ECEIVED AT THE PLACE DESIGNATED FOR TH	IE RECEIPT OF OFFERS PRIOF	R TO THE HOU	R AND DATE SPECIFIED MAY RI	ESULT IN REJECTION OF YOU
FFER. If by virtue of this amendment you desire to akes reference to the solicitation and this amendment	o change an offer aiready submitt	ed, such change	e may be made by telegram or lette	er, provided each telegram or lett
2. ACCOUNTING AND APPROPRIATION DATA			·	
GGH.1651, \$217,000 (complete)				
			S OF CONTRACTS/OR	
			DESCRIBED IN ITEM	
(x) A. THIS CHANGE ORDER IS ISSUED PU	JRSUANT TO: (Specify authority)	THE CHANGE	S SET FORTH IN ITEM 14 ARE	WADE IN THE CONTRACT
ORDER NO. IN ITEM 10A.				
X B. THE ABOVE NUMBERED CONTRACT	ORDER IS MODIFIED TO REF		INISTRATIVE CHANGES (such a	s changes in paying office,
appropriation date, etc.) SET FORTH IN IT	EM 14, PURSUANT TO THE AU	THORITY OF F	AR 43.103(b).	
C. THIS SUPPLEMENTAL AGREEMENT	IS ENTERED INTO PURSUANT	TO AUTHORIT	Y OF:	
D. OTHER (Specify type of modification a	nd authority)	<u> </u>		
. IMPORTANT: Contractor Xis not, is req			copiy to the issuing office	
4. DESCRIPTION OF AMENDMENT/MODIFICAT	ION (Organized by UCP section i	neadings, includ	ing solicitation/contract subject ma	iller witere leasible.)
The purpose of this modification i	is to add \$217,000 for c	ost funding		
		oot ienienig	•	
The purpose of this mounication				
				·
Accordingly, the Contract Schedu				Task Assignments
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), I	Paragraphs A and B are			Task Assignments
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), I CON	Paragraphs Å and B are TINUED ON PAGE 2	e hereby re	vised as follows:	
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), CON Except as provided herein, all terms and conditions	Paragraphs A and B are TINUED ON PAGE 2 of the document referenced in the	e hereby re im 9A or 10A, as	vised as follows:	hanged and in full force and effec
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), I	Paragraphs A and B are TINUED ON PAGE 2 of the document referenced in the	e hereby re m 9A or 10A, as 16A. NAME	vised as follows:	hanged and in full force and effec
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), CON Except as provided herein, all terms and conditions 5A. NAME AND TITLE OF SIGNER (Type or print	Paragraphs Å and B are TINUED ON PAGE 2 of the document referenced in Ite	e hereby re m 9A or 10A, as 16A. NAME Stanle	vised as follows: sheretofore changed, remains und AND TITLE OF CONTRACTING C by W. Waard	hanged and in full force and effec FFICER (Type or print)
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), CON Except as provided herein, all terms and conditions	Paragraphs A and B are TINUED ON PAGE 2 of the document referenced in the	e hereby re m 9A or 10A, as 16A. NAME Stanle	vised as follows: sheretofore changed, remains und AND TITLE OF CONTRACTING C	hanged and in full force and effec FFICER (Type or print) 16C. DATE SIGNED
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), CON Except as provided herein, all terms and conditions 5A. NAME AND TITLE OF SIGNER (Type or print 5B. CONTRACTOR/OFFEROR	Paragraphs Å and B are TINUED ON PAGE 2 of the document referenced in Ite	e hereby re m 9A or 10A, at 16A. NAME Stanle 16B. UNITED BY	vised as follows: sheretofore changed, remains und AND TITLE OF CONTRACTING C by W. Ward STATES OF AMERICA	hanged and in full force and effec FFICER (Type or print)
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), CON Except as provided herein, all terms and conditions (SA. NAME AND TITLE OF SIGNER (Type or print SB. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	Paragraphs Å and B are TINUED ON PAGE 2 of the document referenced in Ite ) 15C. DATE SIGNED	e hereby re m 9A or 10A, as 16A. NAME Stanle 16B. UNITED BY	vised as follows: sheretofore changed, remains und AND TITLE OF CONTRACTING C by W. Ward STATES OF AMERICA	hanged and in full force and effec FFICER (Type or print) 16C. DATE SIGNED , ///3/96
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), CON Except as provided herein, all terms and conditions 5A. NAME AND TITLE OF SIGNER (Type or print 5B. CONTRACTOR/OFFEROR	Paragraphs Å and B are TINUED ON PAGE 2 of the document referenced in Ite ) 15C. DATE SIGNED	e hereby re m 9A or 10A, at 16A. NAME Stanle 16B. UNITED BY	vised as follows: sheretofore changed, remains und AND TITLE OF CONTRACTING C y W. Ward DSTATES OF AMERICA <i>Estally Clip Contracting Officer</i> ) STANDA Prescribed	hanged and in full force and effect FFICER (Type or print) 16C. DATE SIGNED 113/76 100 FORM 30 (Rev. 10-83)
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), I CON Except as provided herein, all terms and conditions ISA. NAME AND TITLE OF SIGNER (Type or print ISB. CONTRACTOR/OFFEROR (Signature of person authorized to sign) NSN 7540-01-152-8070	Paragraphs Å and B are TINUED ON PAGE 2 of the document referenced in Ite ) 15C. DATE SIGNED	e hereby re m 9A or 10A, as 16A. NAME Stanle 16B. UNITED BY	vised as follows: sheretofore changed, remains und AND TITLE OF CONTRACTING C y W. Ward DSTATES OF AMERICA <i>Estally Clip Contracting Officer</i> ) STANDA Prescribed	hanged and in full force and effect FFICER (Type or print) 16C. DATE SIGNED 11.3 AG 1.1.3 AG RD FORM 30 (Rev. 10-83)
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), I CON Except as provided herein, all terms and conditions 5A. NAME AND TITLE OF SIGNER (Type or print 5B. CONTRACTOR/OFFEROR (Signature of person authorized to sign) ISN 7540-01-152-8070	Paragraphs A and B are TINUED ON PAGE 2 of the document referenced in Ite 7 15C. DATE SIGNED 30	e hereby re m 9A or 10A, as 16A. NAME Stanle 16B. UNITED BY	vised as follows: sheretofore changed, remains und AND TITLE OF CONTRACTING C y W. Ward DSTATES OF AMERICA <i>Estimature of Contracting Officer</i> ) STANDA Prescribed	hanged and in full force and effect FFICER (Type or print) 16C. DATE SIGNED , , //.3 /7 ( RD FORM 30 (Rev. 10-83) by GSA
Accordingly, the Contract Schedu (LaRC 52.232.111) (JUN 1991), I CON xcept as provided herein, all terms and conditions 5A. NAME AND TITLE OF SIGNER (Type or print 5B. CONTRACTOR/OFFEROR (Signature of person authorized to sign) ISN 7540-01-152-8070	Paragraphs Å and B are TINUED ON PAGE 2 of the document referenced in Ite ) 15C. DATE SIGNED	e hereby re m 9A or 10A, as 16A. NAME Stanle 16B. UNITED BY	vised as follows: sheretofore changed, remains und AND TITLE OF CONTRACTING C y W. Ward DSTATES OF AMERICA <i>Estimature of Contracting Officer</i> ) STANDA Prescribed	hanged and in full force and effect FFICER (Type or print) 16C. DATE SIGNED , , //.3 /4 C RD FORM 30 (Rev. 10-83) by GSA

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"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$3,421,776. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

V. .

B. An additional amount of \$128,530 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a funding increase of \$217,000 in cost, from \$3,204,776 to \$3,421,776. Fee funding remains unchanged at \$128,530. Estimated funded-through date remains May 15, 1997.

### CONTRACT SUMMARY

Present Value Thru Mod 40

Hours: 32,432 Est. Cost: \$3,112,956 Fixed Fee: \$115,500 Max Potential Contract Total

80,000 \$5,787,900 \$285,400

2

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### FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount
Cost \$3,204,776	\$217,000	\$3,421,776
Fee \$128,530	\$0	\$128,530
Total \$3,333,306	\$217,000	\$3,550,306

### ACCOUNTING AND APPROPRIATION DATA

PR GGH.1651, \$217,000 (complete), Task 23

	Pier 11/451-	2000' 39				
			pproval #: 2		PAGE OF I	ACES
AMENDMENT OF SOLICITATION/MO	DIFICATION OF CO	NTRACT	1. CONTRACT ID COD		1	2
2. AMENDMENT/MODIFICATION NO. 3.	EFFECTIVE DATE	4. REQUISIT	ION/PURCHASE REQ. NO	O. 5. PROJ	ECT NO. (II	applicable)
39 6. ISSUED BY CODE	10/15/96	7. ADMINIST	ERED BY (If other than Ite	am 6) CODE		
L	······································	4			•	
National Aeronautics and Space Adr Langley Research Center Hampton, VA 23681-0001	ministration					
8. NAME AND ADDRESS OF CONTRACTOR (No., str	eet, county, State, and Zip Co	de) (X)	9A. AMENDMENT OF	SOLICITATION N	0.	
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt			9B. DATED (SEE ITEN	A 11)		
358 E. Filmore Avenue			10A. MODIFICATION	OF CONTRACT/C	RDER NO.	
St. Paul, MN 55107-1289		x	NAS1-20001			
			10B. DATED (SEE ITE	M 13)		
CODE FACILITY			4-30-93		· .	
	ONLY APPLIES TO			TIONS	<u> </u>	
The above numbered solicitation is amended as s Offers must acknowledge receipt of this amendment price	set forth in Item 14. The hour	and date specific	ed for receipt of Offers	is extended,		extended.
(c) By separate letter or telegram which includes a refer RECEIVED AT THE PLACE DESIGNATED FOR THE F OFFER. If by virtue of this amendment you desire to ch makes reference to the solicitation and this amendment 12. ACCOUNTING AND APPROPRIATION DATA (If re GGH.1645, \$4,875 (complete)	ange an offer already submit , and is received prior to the o	eo. such chance	THAY DE THADE DY LERCHAT	n or letter, provide	d each teleg	ram or letter
13. THIS ITEM APPI	LIES ONLY TO MOD	IFICATION	S OF CONTRACT	S/ORDERS,		·
IT MODIFIES TH (x) A. THIS CHANGE ORDER IS ISSUED PURS ORDER NO. IN ITEM 10A.	E CONTRACT/ORD	THE CHANGE	S SET FORTH IN ITEM 1	4 ARE MADE IN 1	THE CONTR	ACT
X B. THE ABOVE NUMBERED CONTRACT/O appropriation date, etc.) SET FORTH IN ITEM	14, PURSUANT TO THE AU	THORE TOP P	AR 43.103(D).	(such as changes	in paying o	Пce,
C. THIS SUPPLEMENTAL AGREEMENT IS	ENTERED INTO PURSUANT	TO AUTHORIT	YOF:			
D. OTHER (Specify type of modification and a	authority)					
			· · · · · · · · · · · · · · · · · · ·			
E. IMPORTANT: Contractor Xis not, is require 14. DESCRIPTION OF AMENDMENT/MODIFICATION	ed to sign this document a (Omanized by UCF section)	nd return headings, includ	copiy to the issuin ing solicitation/contract sui	g omce. bject matter where	(easible.)	
		•	-			
The purpose of this modification is t	to add \$4,875 for cos	t funding.				
Accordingly, the Contract Schedule (LaRC 52.232.111) (JUN 1991), Pa CONTI Except as provided herein, all terms and conditions of t	ragraphs A and B an NUED ON PAGE 2	e hereby re am 9A or 10A, as	VISED as follows: s heretofore changed, rem	ains unchanged a	nd in full for	æ and effect.
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME	AND TITLE OF CONTRAC	CTING OFFICER (	Type or prin	0
		Stanle	y W. Ward			
158. CONTRACTOR/OFFEROR	15C. DATE SIGNED	168. UNITER	STATES OF AMERICA	/	16C. DAT	ESIGNED
		BY	Temple	i Land	Nh	k,
(Signature of person authorized to sign)		15	ignature of Contracting O		10/15	76
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE	30	-105		TANDARD FOR escribed by GSA	(Rev	r. 10 <b>-83)</b>
				AR (48 CFR) 53.24	43	
			· · · · · · · · · · · · · · · · · · ·			

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### NAS1-20001 Modification No. 39

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$3,204,776. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$128,530 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a funding increase of \$4,875 in cost, from \$3,199,901 to \$3,204,776. Fee funding remains unchanged at \$128,530. Estimated funded-through date is revised to be May 15, 1997.

# CONTRACT SUMMARY

Present Value Thru Mod 39

Hours: 32,432 Est. Cost: \$3,112,956 Fixed Fee: \$115,500 Max Potential Contract Total

80,000 \$5,787,900 \$285,400

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### FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount
Cost \$3,199,901	\$4,875	\$3,204,776
Fee \$128,530	\$0	\$128,530
Total \$3,328,431	\$4,875	\$3,333,306

## ACCOUNTING AND APPROPRIATION DATA

PR GGH.1645, \$4,875, (complete), Task 23

			Notest-20	Juci) J	oproval #: 27 0042		
					pproval #: 21 0042	PAGE	OF PAGES
	NDMENT OF SOLIC					1	2
. AM8	ENDMENT/MODIFICATION P	4O. 3	EFFECTIVE DATE 8/28/96	4. REQUISIT	NONPURCHASE REQ. NO.	5. PROJECT NO	). (If applicable
5. ISS	UED BY	CODE		7. ADMINIST	TERED BY (If other than Item 6)	CODE	
La	ational Aeronautics a angley Research Cer ampton, VA 23681-	nter	dministration				
3. NAA	A AND ADDRESS OF CON	TRACTOR (No., s	treet, county, State, and Zip C	ode) (x)	9A. AMENDMENT OF SOLIC	ITATION NO.	
FI	ero Systems Engined luidyne Facilities Gro ttn: Mr. Tom Holt	-			9B. DATED (SEE ITEM 11)		
	58 E. Filmore Avenue	è			10A. MODIFICATION OF CO	NTRACT/ORDER	10.
	t. Paul, MN 55107-	-		x	NAS1-20001		
			<u>.                                    </u>		10B. DATED (SEE ITEM 13)		
CODE			YCODE		4-30-93	• •	·····
<u> </u>	11.	THIS ITEM	ONLY APPLIES TO	AMENDME	NTS OF SOLICITATION	NS	
DFFER nakes 12. AC G	XED AT THE PLACE DESIGN . If by virtue of this amendmm reference to the solicitation a COUNTING AND APPROPR GH.1636, \$92,000(C 25,355)	NATED FOR THE ent you desire to c nd this amendmen NATION DATA (If ) Omplete); 56	RECEIPT OF OFFERS PRIO hange an offer aiready submit t, and is received prior to the of equired) 73.1032, (\$1,009); Go	R TO THE HOOR ted, such change opening hour and GCC.1018, (	ng receipt of this amendment on e ers. FAILURE OF YOUR ACKNO AND DATE SPECIFIED MAY RE may be made by telegram or lette date specified. (\$2,302); GGH.1552, (\$ S OF CONTRACTS/OR	28,682); GGI.	ION OF YOUR legram or lette
(x)	IT N	AODIFIES TH	HE CONTRACT/ORD	ER NO. AS	DESCRIBED IN ITEM S SET FORTH IN ITEM 14 ARE N	14.	ITRACT
Х	appropriation date, etc.) SE	T FORTH IN ITEN	A 14, PURSUANT TO THE AU	JTHORITY OF FA		s changes in payin	ŋ office,
1	C. THIS SUPPLEMENTAL	AGREEMENT IS	ENTERED INTO PURSUAN	TO AUTHORITY	(OF:		
	D. OTHER (Specify type o	f modification and	authority)		<u> </u>		
- IM	PORTANT: Contractor X	ie pot je roquir	ad to sign this decuments	and coturn	appierte the incluing office		
4. DE	SCRIPTION OF AMENDMEN	NT/MODIFICATIO	N (Organized by UCF section	headings, includir	copiy to the issuing office of solicitation/contract subject ma	tter where feasible.	)
	he purpose of this mo ost funding.	odification is	to de-obligate \$57,34	8, and obliga	ate \$92,000, for a net in	crease of \$34	I,652 in
(L	.aRC 52.232.111) (JI	JN 1991), Pa CONTII	ragraphs Å and B an NUED ON PAGE 2	e hereby rev		-	
	as provided herein, all terms IAME AND TITLE OF SIGNE		ne document referenced in Ite	16A. NAME A	heretofore changed, remains uncl ND TITLE OF CONTRACTING O V W. Ward		
58. C	ONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED	states of AMERICA	1 1	TE SIGNED
	(Signature of person authori.	and he areas	<b>-</b> }	150	nature of Contracting Officer)		116
	540-01-152-8070	zea (o sign)	1	-105		RD FORM 30 (R	

NAS1-20001 Modification No. 38

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$3,199,901. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$128,530 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a funding increase of \$34,652 in cost, from \$3,165,249 to \$3,199,901. Fee funding remains unchanged at \$128,530. Estimated funded-through date remains 9-30-96.

## CONTRACT SUMMARY

Present Value Thru Mod 38

Hours: 32,372 Est. Cost: \$3,108,339 Fixed Fee: \$115,500 Max Potential Contract Total

80,000 \$5,787,900 \$285,400

-

### FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount
Cost \$3,165,249	\$34,652	\$3,199,901
Fee \$128,530	\$0	\$128,530
Total \$3,293,779	\$34,652	\$3,328,431

# ACCOUNTING AND APPROPRIATION DATA

PR GGH.1636, \$92,000(complete), Task 22

		A 151-	20001					
		MASI GI						
		F1	<i>,</i> ) ON	MB A	oproval #: 270, 3042			
AME	NDMENT OF SOLICITATION/M	MODIFICATION OF CO	NTRAC	т	1. CONTRACTID CODE		PAGE C	PAGES
2. AM	ENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE			ON/PURCHASE REQ. NO.	5. PROJE	CT NO.	(If applicable)
6. ISS	37 UED BY CODE	8/5/96	7 4084	INIST	See below ERED BY (If other than Item 6)	CODE		
						CODE	L	
Li	lational Aeronautics and Space , angley Research Center lampton, VA 23681-0001	Administration						
8. NA	ME AND ADDRESS OF CONTRACTOR (No.,	street, county, State, and Zip Co	ce)	(X)	9A. AMENDMENT OF SOLICI	ITATION NO	<b>)</b> .	
F	ero Systems Engineering, Inc. luidyne Facilities Group				9B. DATED (SEE ITEM 11)			
	ttn: Mr. Tom Holt 58 E. Filmore Avenue		Ļ		10A. MODIFICATION OF COM			
_	t. Paul, MN 55107-1289					NIRACI, UP		5.
0				x	NAS1-20001			
				~	10B. DATED (SEE ITEM 13)			······································
CODE	FACI	LITY CODE			4-30-93			
	11. THIS ITE	MONLY APPLIES TO A	AMEND	MEN	TS OF SOLICITATION	IS		
makes 12. AC		b change an order already submitting ent, and is received prior to the o (if required) PLIES ONLY TO MOD THE CONTRACT/ORD	(comple iFICATI ER NO.	ete) ONS	B OF CONTRACTS/OR	DERS,	each tel	egram or letter
×	B. THE ABOVE NUMBERED CONTRACT appropriation date, etc.) SET FORTH IN IT	EM 14, PURSUANT TO THE AU	THORITY C	XF FAI	R 43.103(b).	s changes ir	n paying	office,
	C. THIS SUPPLEMENTAL AGREEMENT	IS ENTERED INTO PURSUANT		DRITY	OF:			
	D. OTHER (Specify type of modification ar	nd authority)					<u>.</u>	
E. IM	PORTANT: Contractor Xis not, is req	uired to sign this document a	nd return		copiy to the issuing office		······ • · · · · · · · · · · · · · · ·	
14. D	ESCRIPTION OF AMENDMENT/MODIFICAT	ION (Organized by UCF section I	headings, in	cludin	g solicitation/contract subject ma	Iter where fe	asible.)	
Т	he purpose of this modification is	s to add \$270,000 In co	ost fundi	ng.				
(l Excep	t as provided herein, all terms and conditions	Paragraphs A and B are TINUED ON PAGE 2 of the document referenced in Ite	hereby m 9A or 10/	revi A, as f	Sed as follows: eretofore changed, remains uncl	hanged and	in full fo	rce and effect.
15A. I	NAME AND TITLE OF SIGNER (Type or print)				D TITLE OF CONTRACTING OF	FFICER (Ty	pe or pri	nt)
			sta Sta	niey	W. Ward			
158. (	CONTRACTOR/OFFEROR	15C. DATE SIGNED	168. UN	ITED	STATES OF AMERICA	11	IGC. DA	
	(Signature of person authorized to sign)		Ľ	(Sig	nature of Contracting Officer)		- ( )	176
	'540-01-152-8070 IOUS EDITION UNUSABLE	30-	105		Prescribed	RD FORM by GSA FR) 53.243	30 (Re	v. 10-83)

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NAS1-20001 Modification No. 37

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$3,165,249. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$128,530 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a funding increase of \$270,000 in cost, from \$2,895,249 to \$3,165,249. Fee funding remains unchanged at \$128,530. Estimated funded-through date remains 9-30-96.

# CONTRACT SUMMARY

Present Value Thru Mod 37

Hours: 32,372 Est. Cost: \$3,108,339 Fixed Fee: \$115,500 Max Potential Contract Total

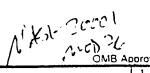
80,000 \$5,787,900 \$285,400

### FUNDING SUMMARY

Previo	ously Funded	Changed by This Mod	Revised Amount
Fee	\$2,895,249	\$270,000	\$3,165,249
	\$128,530	\$0	\$128,530
	\$3,023,779	\$270,000	\$3,293,779

## ACCOUNTING AND APPROPRIATION DATA

PR GGK6.1043, \$160,000 (complete), Task 19 PR GGI .2008, \$110,000 (complete), Task 21



		OMB AD	oroval #: 2700-0042	
AMENDMENT OF SOLICITATION/			1. CONTRACT ID CODE	PAGE CF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE		ON/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
36 3. ISSUED BY CODE	7/12/96		See below ERED BY (If other than Item 6)	
		I. ACIVITATO IT	Lice of thodermannen d)	L
National Aeronautics and Space Langley Research Center Hampton, VA 23681-0001	Administration		,	
3. NAME AND ADDRESS OF CONTRACTOR (No	, street, county, State, and Zip Code	e) (X)	9A. AMENDMENT OF SOLIC	ITATION NO.
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt			98. DATED (SEE ITEM 11)	
358 E. Filmore Avenue			10A. MCDIFICATION OF CO	NTRACT/CRDER NO.
St. Paul, MN 55107-1289			NAS1-20001	
		X		
			10B. DATED (SEE ITEM 13)	· · · · · · · · · · · · · · · · · · ·
CCCE FAC	ILITY CODE		4-30-93	
11. THIS ITE	M ONLY APPLIES TO A	MENDMEN		NS
Cffers must acknowledge receipt of this amendment	as set form in item 14. The hour a at original the bour and data specifie	nd date specifie	ion or as amended, by one of the	extended, L is not extended.
(a) By completing Items 3 and 15, and returning (c) By secarate letter or telegram which includes a RECEIVED AT THE PLACE DESIGNATED FCR T CFFER. If by virtue of this amendment you desire makes reference to the solicitation and this amend 12. ACCCUNTING AND APPROPRIATION DATA	reference to the solicitation and am HE RECEIPT OF OFFERS PRIOR to change an offer already submitte ment, and is received prior to the op	endment numbe TO THE HOUR d, such change	ers. FAILURE CF YOUR ACKNO AND DATE SPECIFIED MAY R may be made by telegram or let	ESULI IN REJECTION OF TOUR
GGI.1076 (\$4.167) (complete);		molete)		
	PPLIES ONLY TO MODI		S OF CONTRACTS/OF	RDERS.
IT MODIFIES	THE CONTRACT/ORDE	ER NO. AS	DESCRIBED IN ITEM	14.
(X) A. THIS CHANGE ORDER IS ISSUED F ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority)	THE CHANGE	S SET FORTH IN ITEM 14 ARE	MADE IN THE CONTRACT
X B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH IN	T/CREER IS MODIFIED TO REFL ITEM 14, PURSUANT TO THE AUT	ECT THE ADMI THORITY OF FA	NISTRATIVE CHANGES (such RR 43.103(b).	as changes in paying office,
C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED INTO PURSUANT	TO AUTHORIT	YOF:	
D. OTHER (Specify type of modification	and authority)			
E. IMPORTANT: Contractor I is not, X is	required to sign this document	and return 1	copiy to the issuing o	ffice.
14. DESCRIPTION OF AMENDMENT/MODIFICA	TICN (Organized by UCF section h	eadings, includ	ing solicitation/contract subject n	natter where (easible.)
The purpose of this modification	is to deobligate \$49,167	' in cost fun	ding.	
Accordingly, the Contract Scher (LaRC 52.232.111) (JUN 1991) COI Except as provided herein, all terms and condition	. Paragraphs A and B are NTINUED ON PAGE 2	hereby rev	vised as follows:	
15A. NAME AND TITLE OF SIGNER (Type or pr		16A NAME	AND TITLE OF CONTRACTING	OFFICER (Type or print)
	·		W. Ward	
158. CONTRACTOR/OFFERCR	15C. DATE SIGNED	16B. UMTE	interili 102	TIEC. DATE SIGNED
(Signature of person authorized to sign)			ignature of Contracting Officer)	1116/76
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE	30	-105	Prescrib	DARD FORM 30 (Rev. 10-33) ed by GSA I CFR) 53.243

<u>ب</u>

NAS1-20001 Modification No. 36

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$2.895,249. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$128,530 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a net funding decrease of \$49,167 in cost, from \$2,944,416 to \$2,895,249. Estimated funded-through date remains 9-30-96.

# CONTRACT SUMMARY

Present Value Thru Mod 36

Hours: 27,240 Est. Cost: \$2,318,070 Fixed Fee: \$96,150 Max Potential Contract Total

80,000 \$5,787,900 \$285,400

# FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount		
Cost \$2,944,416 Fee \$128,530 Total \$3,072,946	(\$ 49,167) \$0 (\$49,167)	\$2,895,249 \$128,530 \$3,023,779		

# ACCOUNTING AND APPROPRIATION DATA

PR GGI.1076 (\$4,167) (complete), Task 17 PR GGI.1088 (\$45,000) (complete), Task 17

			FILES	n'l			
			Nor	D 35			
			7010	Y CMB A	Doroval #: 2700-0042	PAGE	OF PAGES
	IDMENT OF SOLICITA					1	2 IO. (If applicable)
2. AME	NEMENT MODIFICATION NO. 35	3. 6	FFECTIVE DATE 7/12/96	A RECUISIT	ON/PURCHASE REQ. NO. see below	5. PROJECT N	
6. ISSU	ED BY	CCCE	·····	7. ADMINIST	ERED BY (If other than Item 6		
Lar	itional Aeronautics and S ngley Research Center impton, VA 23681-0001		ninistration				
3. NAM	E AND ADDRESS OF CONTRACT	TOR (No., stree	et, county, State, and Zip Co	de) (x)	9A. AMENDMENT OF SOL	ICITATION NO.	
Fit Att 35	ero Systems Engineering uidyne Facilities Group In: Mr. Tom Holt 8 E. Filmore Avenue . Paul, MN 55107-1239			×	98. DATED (SEE ITEM 11 104. MCDIFICATION OF 0 NAS1-20001		RNO.
					10B. DATED (SEE ITEM 1	3)	
CCCE		FACILITY			4-30-93		
					NTS OF SOLICITATI		
Цт	he above numbered solicitation is nust acknowledge receipt of this ar	amended as se	t forth in Item 14. The hour	and date specific	ed for receipt of Offers	is extended,	is not extended.
(x)	GK8.1159, \$400.000 (cc 13. THIS IT IT MOE A. THIS CHANGE ORDER IS IS ORDER NO. IN ITEM 10A.	EM APPL	IES ONLY TO MOD E CONTRACT/ORD	IFICATION ER NO. AS	S OF CONTRACTS/ DESCRIBED IN ITE	M 14.	ONTRACT
X	B. THE ABOVE NUMBERED C appropriation date, etc.) SET FC	RTH IN ITEM	14, PURSUANT TO THE AU	THORITY OF F	AR 43.103(b).	ch as changes in pa	ying office,
	C. THIS SUPPLEMENTAL AGE	REEMENT IS E	NTERED INTO PURSUANT	TO AUTHORIT	Y OF:		
	D. OTHER (Specify type of mod	fincation and a	uthority)				· · · · · · · · · · · · · · · · · · ·
	I PORTANT: Contractor I is n ESCRIPTION OF AMENDMENT/M						ble.)
Т	he purpose of this modif	cation is to	o add \$426,000 in co	ost funding a	and \$20,000 in fee fu	nding.	
(۱	ccordingly, the Contract _aRC 52.232.111) (JUN t as provided herein, all terms and	1991). Par CONTIN	ragraphs A and B ar IUED ON PAGE 2	e hereby re em 9A or 10A, a	vised as follows: s heretofore changed, remains	unchanged and in	full force and effect.
15A.	NAME AND TITLE OF SIGNER (T	(pe or print)		Stanle	AND TITLE OF CONTRACTINE by W. Mard		
158. (	CONTRACTOR OFFEROR		15C. DATE SIGNED	BY	STATES OF AMERICA	iang (	7/11/46
NSN I	(Signature of person authorized) 7540-01-152-3070	osign)		0-105	Signature of Contracting Office	NDARD FORM 30	11-
	IOUS EDITION UNUSABLE			10.000	Preso	inbed by GSA (48 CFR) 53,243	

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NAS1-20001 Modification No. 35

"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$2,944,416. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$128,530 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a net funding increase of \$426,000 in cost, from \$2,518,416 to \$2,944,416, and funding increase of \$20,000 in fee, from \$108,530 to \$128,530. Estimated funded-through date remains 9-30-96.

# CONTRACT SUMMARY

Present Value Thru Mod 35

Hours: 26,950 Est. Cost: \$2,279,962 Fixed Fee: \$96,150 Max Potential Contract Total

80,000 \$5,787,900 \$285,400

## FUNDING SUMMARY

Previously FundedChanged by This ModRevised AmountCost \$2,518,416\$426,000\$2,944,416Fee \$108,530\$20,000\$128,530Total \$2,626,946\$446,000\$3,072,946

# ACCOUNTING AND APPROPRIATION DATA

PR GGK8.1159, \$400,000 (complete), Task 20 PR GGK6.1041, \$46,000 (complete), Task 18

	1 Masi-	- 7000	l,	M-34		
	10	OMB	Αp	proval #: 270 J042		
AMENDMENT OF SOLICITATION/MO				1. CONTRACT ID CODE		PAGE OF PAGES
	EFFECTIVE DATE		SITIO	ON/PURCHASE REQ. NO.		ECT NO. (If applicable)
34	5/29/96			see below		
6. ISSUED BY CODE		7. ADMINI	STE	RED BY (If other than item o)	CODE	
National Apparation and Space Ad						_
National Aeronautics and Space Ade Langley Research Center	ministration					
Hampton, VA 23681-0001						
• · ·						
8. NAME AND ADDRESS OF CONTRACTOR (No., str	eet, county, State, and Zip Co	de) (x	5	9A. AMENDMENT OF SOLICI	TATION NO	).
Acro Systems Essingaring Inc						
Aero Systems Engineering, Inc. Fluidyne Facilities Group				9B. DATED (SEE ITEM 11)		
Attn: Mr. Tom Holt						
358 E. Filmore Avenue				10A. MODIFICATION OF COM	ITRACT/OF	RDER NO.
St. Paul, MN 55107-1289				NAS1-20001		
		X	(			
				108. DATED (SEE ITEM 13)	-	•
CCDE FACILITY				4-30-93		
				TS OF SOLICITATION	<u>18</u>	<u></u>
The above numbered solicitation is amended as s Offers must acknowledge receipt of this amendment price					xtended,	is not extended.
• · · ·		•				
(c) By separate letter or telegram which includes a refer	ence to the solicitation and arr	nendment num	nber	receipt of this amendment on ea s. FAILURE OF YOUR ACKNO	WLEDGEM	IENT TO BE
RECEIVED AT THE PLACE DESIGNATED FOR THE F OFFER. If by virtue of this amendment you desire to ch	RECEIPT OF OFFERS PRIOR ange an offer already submitted	t TO THE HOU ed, such chang	UR. ger	AND DATE SPECIFIED MAY RE nay be made by telegram or lette	SULT IN R	EJECTION OF YOUR each telegram or letter
makes reference to the solicitation and this amendment 12. ACCOUNTING AND APPROPRIATION DATA (If re	, and is received prior to the operation of the operation	pening hour ar	nd c	late specified.		
GGH.1601, C-295305, (\$112.350);	GGK8.1149, R-1952	8, \$2.226	(C	omplete)		
				OF CONTRACTS/OR		
				DESCRIBED IN ITEM 1		IF CONTRACT
(x) A. THIS CHANGE ORDER IS ISSUED PURS ORDER NO. IN ITEM 10A.	IOANT TO: (Specily authority)	I THE CHANG	953	SELFORTHIN LEMENT ARE N	MADE IN IF	TE CONTRACT
X B. THE ABOVE NUMBERED CONTRACT/OI appropriation date, etc.) SET FORTH IN ITEM	RDER IS MODIFIED TO REFU	ECT THE AD	FA	ISTRATIVE CHANGES (such a: R 43.103(b).	s changes il	n paying office,
C. THIS SUPPLEMENTAL AGREEMENT IS	ENTERED INTO PURSUANT	TO AUTHOR	ÎTY	OF:	<del> </del>	
D. OTHER (Specify type of modification and a	wheet					
D. OTHER (Specify type of modification and a	lunomy					
E. IMPORTANT: Contractor is not, X is requ	ired to sign this document	and return	1	copiy to the issuing off	ice.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION	(Organized by UCF section I	headings, inclu	udin	g solicitation/contract subject ma	tter where f	'easible.)
		00 :	£	undian and \$5 250 in fa		
The purpose of this modification is t GGH.1601, and to add \$2,226 in co						
\$104,774, and a net contract fee de			э,		de-oblig	auonor
Accordingly, the Contract Schedule					Task As	signments
(LaRC 52.232.111) (JUN 1991), Pa		e hereby r	ev	ised as follows:		
CONTII Except as provided herein, all terms and conditions of t	NUED ON PAGE 2 the document referenced in Ite	m 9A or 10A	as	neretofore changed, remains und	hanged and	d in full force and effect.
15A. NAME AND TITLE OF SIGNER (Type or print)				ND TITLE OF CONTRACTING C		
11:1/1 /1/11 Der		Stan	ley	W. Ward		
Dillique 1. Holt Pros	at Manager			14		
15B. CONTRACTORIOFFEROR	15C. DATE SIGNED	168. UNIT	岁	STATES OF AMERICA	1	16C. DATE SIGNED
Ullat. Her	6/1/96	BY		fining itay	-	5 /26/4/
(Signature of person authofized to sign)		1 ( )	(SK	nature of Contracting Officer)		1-11-10

Signature of Contracting Officer) STANDARD FORM 30 (Rev. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

30-105

(Signature of person authorized to sign) NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE

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"A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of the payment of cost, exclusive of fee, is \$2,518,416. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

B. An additional amount of \$108,530 is obligated under this contract for the payment of fee."

NOTE: The new amount reflects a net funding decrease of \$104,774 in cost, from \$2,623,190 to \$2,518,416, and funding decrease of \$5,350 in fee, from \$113,880 to \$108,530. Estimated funded-through date is 9-30-96.

## CONTRACT SUMMARY

Present Value Thru Mod 34

Hours: 26,870 Est. Cost: \$2,274,047 Fixed Fee: \$108,530 Max Potential Contract Total

1

80,000 \$5,787,900 \$285,400

2

### FUNDING SUMMARY

Previously Funded

Changed by This Mod

Revised Amount

Cost\$2,623,190(\$104,774)\$2,518,416Fee\$113,880(\$5,350)\$108,530Total\$2,737,070(\$110,124)\$2,626,946

### ACCOUNTING AND APPROPRIATION DATA

PR GGH.1601, C-295305, (\$112,350) (complete), Task 13 PR GGK8.1149, R-19528, \$2,226 (complete), Task 20 Page 2 of 2

		NASI-Zacia MOD	'' 33 ~		, (		
					proval #: 21 J0-0042 1. CONTRACT ID CODE	PAGE OF PAG	JES
	MENT OF SOLICITATION/	MODIFICATION OF CO 3. EFFECTIVE DATE APR 2 5 1996	NTRAC		ION/PURCHASE REQ. NO.	5. PROJECT NO. (If ap)	2
	33	APR 2 5 1996				5. PROJECT NO. (Ir ap)	piicable)
6. ISSUED	CODE		7. ADM	INIST	ERED BY (If other than item 6)	CODE	
Lang	onal Aeronautics and Space gley Research Center opton, VA 23681-0001	Administration					
3. NAME A	AND ADDRESS OF CONTRACTOR (No.	., street, county, State, and Zip Co	de)	(x)	9A. AMENDMENT OF SOLIC	ITATION NO.	
358	o Systems Engineering, Incor E. Fillmore Avenue Paul, MN 55107-1289	porated			98. DATED (SEE ITEM 11)		
					10A. MODIFICATION OF CO	NTRACT/ORDER NO.	
				х	NAS1-20001		
					10B. DATED (SEE ITEM 13)	±	
CODE	······································				4-30-93	·	···.
<u> </u>	above numbered solicitation is amended	MONLY APPLIES TO				NS	
(c) By sepa RECEIVED OFFER. If makes refe 12. ACCO See		reference to the solicitation and an HE RECEIPT OF OFFERS PRIOF to change an offer aiready submitted nent, and is received orior to the o (If required) ropriation Data PPLIES ONLY TO MOD THE CONTRACT/ORD	IFICATI		AND DATE SPECIFIED MAY R may be made by telegram or let date specified. S OF CONTRACTS/OF DESCRIBED IN ITEM	DULEDGEMENT TO BE ESULT IN REJECTION OF er. provided each telegram RDERS, 14.	F YOUR
a	B. THE ABOVE NUMBERED CONTRAC ppropriation date, etc.) SET FORTH IN 1 C. THIS SUPPLEMENTAL AGREEMENT	TEM 14, PURSUANT TO THE AU	THORITY	OF FA	R 43.103(b).	as changes in paying office,	, 
	D. OTHER (Specify type of modification a	and authority)			<u>,</u>		<u> </u>
E IMPO	PTANT: Contractor Via ant	required to since this document				· · · ·	
14. DESC	RTANT: Contractor Xis not, is r RIPTION OF AMENDMENT/MODIFICA	equired to sign this document TION (Organized by UCF section I	and retur headings, ii	n ncludir	copies to the issuing of a solicitation/contract subject m	tice. atter where (easible.)	
Syst The the c	BJECT: Contract NAS1-2000 tems purpose of this modification contract. Accordingly, the Co )(Jun 1991), Paragraph A an	is to add \$180,000 in inc ontract Schedule, Sectio	crement on B.4. (	al fu Cont	nding pursuant to the c	contract funding cla	use of
Except as	provided herein, all terms and conditions REAND TITLE OF SIGNER (Type or print)	CONTINU s of the document referenced in Ite	m 9A or 10	ME A	2 heretofore changed, remains un ND TITLE OF CONTRACTING / W. Ward		nd effect.
158. CON	NTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UI	VITED	STATES OF AMERICA	16C. DATE SI	GNED
<u> </u>			BY _	<u> </u>		APR 2 S	5 1996
The second secon	Signature of person authonzed to sign) 0-01-152-8070		-105	(Sr	gnature of Contracting Officer)		-
	SEDITION UNUSABLE	30	-103			ARD FORM 30 (Rev. 10 d by GSA	1-02)
						CFŔ) 53.243	

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# Page 2 of 2

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- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$2,623,190. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B An additional amount of \$113,880 is obligated under this contract for payment of fee."
- NOTE: The new amount reflects an increase of \$180,000 from \$2,443,190 to \$2,623,190 for payment of cost and no change in the amount of \$113,880 for payment of fee. Estimated fundedthrough date is 9-30-96.

# CONTRACT SUMMARY

# Present Value Thru Mod 33

Potential Contract Total

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Hours:	28	,330 hrs.
Est. Cost:	. \$2	,384,277
Fixed Fee:	\$	101,067

80,000 hrs. \$5,787,900 \$ 285,400

### FUNDING SUMMARY

Previously Funded	Increased by this Mod	Revised Amount
\$2,443,190 Cost	\$180,000 Cost	\$2,623,190
\$ 113,880 Fee	\$ 0 Fee	\$113,880

## ACCOUNTING AND APPROPRIATED DATA

<u>P/R</u>	<u>J/O</u> <u>Ob</u>	<u>Amount</u> ligated	<u>Task Ref.</u>
GGK6.1031	C295700	\$100,000 (complete)	19
GGK6.1032	C974900	\$ 80,000 (complete)	18

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AMENDMENT OF SOLICITATION DIFICATION OF CONTRACT					1. CO TRACTIDICO	DE	PAGE 1	OF PAGES
2. AMENDMENT/MODIFICATION NO. 32	3. EFFECTIVE	DATE	4. REQUISITION/PURC	HASE RE	EQ. NO.	5. PR	DJECT NO.	(If applicable)
6. ISSUED BY CC	DE		7. ADMINISTERED BY	(If othe	r than Item 6)	COD	E	
National Aeronautics and Spa Langley Research Center Hampton, VA 23681-0001	ce Administr	ration						
9. NAME AND ADDRESS OF CONTRACTOR	(No., street, c	cunty, State and Z	(IP Ccde)	(1)	9A. AMENDMENT OF	SOLICI	TATION NO	······································
Aero Systems Enginee	ering, Incorp	orated						
358 E. Fillmore Aven					98. DATED (SEE IT	EM 11)	**	- <del> </del>
St. Paul, MN 55107-	1289				-			
					10A. MODIFICATION	OF CON	TRACT/ORI	DER NO.
					NAS1-20001			
CODE	FACILIT			-  `	10B. DATED (SEE IT	Ем 13) 4-30	)-93	
			S TO AMENDMENTS					
The above number solicitation is amend						hebox	i^i^i^i	not extended.
(a) By completing Items 8 and 15, and returning (c) By separate letter or telegram which include PLACE DESIGNATED FOR THE RECEIPT OF amendment you desire to change an offer alreat and this amendment, and is received prior to the 12. ACCOUNTING AND APPROPRIATION DATION DAT	s a reference to th OFFERS PRIOR dy submitted , suc e opening hour an	ne solicitation and a TO THE HOUR A th change may be d date specified.	ND DATE SPECIFIED M	ILURE C	OF YOUR ACKNOWLED	GÉMENT	TO BE RE	CEIVED AT THE
See Page 2 Accounting and App	· · · · · ·				<u></u>			
			D MODIFICATIONS OF (		•			
(√) A. THIS CHANGE ORDER IS ISSUED P ITEM 10A.	URSUANT TO :	(Specify Authority	) THE CHANGES SET	FORTH	IN ITEM 14 ARE MADE	IN THE	CONTRACT	ORDER NO, IN
B. THE ABOVE NUMBERED CONTRAC etc) SET FORTH IN ITEM 14, PU				VE CHAN	IGES (such as change	s in payi	ng office, ap	ppropriat ion date,
C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED IN	TO PURSUANT T	O AUTHORITY OF:					
Mutual Agreement								
D. OTHER (Specify type of modification	n and authority)						,,,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-	<u>-</u>
E. IMPORTANT: Contractor X is not	is r	required to sign this	s document and return	α	opies to the issuing office	•		
14. DESCRIPTION OF AMENDMENT/MODIFICATION       (Organized by UCF section headings, including solicitation/contract subject matter where feasible)         SUBJECT:       Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems								
						-		
The purpose of this modification					-			act.
Accordingly, the Contract Sched	-			inding	I ask Assignmer	nts (La	IKC	
52.232-111)(JUN 1991) Paragra	iph A is rest	neu as ioliow	/3.		ι.			
Except as provided herein, all terms and cond	Except as provided herein, all terms and conditions of the document referenced in item 3A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type o			· · · · · · · · · · · · · · · · · · ·	D TITLE	OF CONTRACTING OF			
158. CONTRACTOR/OFFEROR		15C. DATE SIGN	162 UNITED		-	1		DATE SIGNED
(Signature of person authorized to sign) NSN 7540-01-152-8070		L		(Signatui	re of Contracting Officery	07.1.1		<u></u>

- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$2,443,190. This amount is to cover the Government's obligation for performance of work in accordance with the limitation and completion dates as set forth in task assignments authorized by the Contracting Officer.
  - B. An additional amount of \$113,880 is obligated under this contract for payment of fee."
- NOTE: The new amount reflects an increase of \$71,497 from \$2,371,693 to \$2,443,190 for payment of cost and an increase of \$3,503 from \$110,377 to \$113,880 for payment of fee.

## CONTRACT SUMMARY

<u>Thru Mod 31</u>		<u>Mod 32</u>	<u>Total</u>
Hours:	80,000 hrs.	0	80,000 hours
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400
Present Funding		Increased by this Mod	<u>Revised Amount</u>
\$2,482,070		\$75,000	\$2,557,070
	ACCOUN	TING AND APPROPRIAT	ED DATA
<u>P/R</u>	<u>J/O</u>	Amount Obligated	<u>Task Ref.</u>

GGI.1088	C295302	\$45,000 (complete)	13
GGI.1081	R19580	\$30,000 (complete)	16

	SOLICIT, JN	/MODIFICATION	OF CONTRAC	T , ONTRACT ID CC	COE PAGE OF PAGES
ZAMENDMENT/MCDIFICATION	NO. 3. EFFEC		RECUISITION/PURCHA	SE REOL NO.	S. PROJECT NO. (If applicable)
dissued by National Aeronautics Langley Research Ce Hampton, VA 2368	nter		ADMNISTERED BY (	lf other them tern 6)	CCOE
358 E. Fillmo	s Engineering, Ind	reel, muniy, State and JP Corporated	Coce)		ESCLICITATION NO.
CODE				V	VAS1-20001 EM :0) 4-30-93
		TEM ONLY APPLIES T	0 445104510		
PLACE DESIGNATED FOR THE RE amondment you desire to change an and this amondment, and is received 12. ACCOUNTING AND APPROPR See Page 2 Accounting an	CEIPT OF CEFERS PR affar alfeddy wornined priar to the centing hou ATION DATA	ICR TO THE HOUR AND , such change may be may r and date specified. lequired)	DATE SPECIFIED WAY	REALLY IN REJECTION OF 1	Sement To be Received at The Sement To be Received at The TOUR OFFER. If by vicure of the r makes reference to the solicitation
See rage 2 Accounting a	זג, דאוא ח	EM APPLIES CNLY TO M			
3. THE ABOVE NUMBERED C	ONTRACT/ORDER 18 1 EM 14, PURSUANT TO	NODIFIED TO ASFLECT	THE ADMINISTRATIVE ( R 43.103(b).		IN THE CONTRACTICROER NO. IN a in paying office, appropriation data,
Mutual Agreement					
D. OTHER (Specify type of )		~/~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~~~~
E. IMPORTANT: CONVADOR 14. DESCRIPTION OF AMENOME SUBJECT: Contract NA Systems			n headings, including col	copies to the issuing office Inflation/contract subject man- ation and Testing of F	H Where (easible)
The purpose of this modi Contract Funding-Task					
<b>-</b>		NTINUED PAGE			
Escali za provided merein, de lermi ISA. NAME AND TITLE OP SIGNEF LUILLIZIN T. H	(Type or Pring	Sct Wine Cer	IGA. NAME AND T Charlotte T. F	THE OF CONTRACTING OF	
ISignalure of person suffortz value of the second suffortz	fe-lt	ISC. DATE SIGNED	ST	TES OF AMERICA	18C. DATE SIGNED 9/22/95
PREVICUS EDITIONS UNUBABLE MABA - Langley Cremerini (DEC 15 20 ° d	ae)	/	20-108		STANDARD FORM 14 (Rev 10-43) Provedon by QBA FAR (44 CFR) 53.243 22:50 S661-22-50

Page 2 of 2

Total

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- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$2,371,693. This amount is to cover the Government's obligation for performance of work in accordance with the limitation and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$110,377 is obligated under this contract for payment of fee."
- NOTE: The new amount reflects a decrease of \$5638 from \$2,377,331 to \$2,371,693 for payment of cost and a decrease of \$3,797 from \$114,174 to \$110,377.

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## CONTRACT SUMMARY

Mod 31

## <u>Thru Mod 30</u>

Hours:	80,000 hrs.	0	80,000 hours
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

### FUNDING SUMMARY

Present Funding	Decreased by this Mod	<u>Revised Amount</u>
\$2,491,505	(-\$9,435)	\$2,482,070

## ACCOUNTING AND APPROPRIATED DATA

<u>P/R</u>	<u>J/O</u>	<u>Amount</u> Deobligated	Task Ref.	
DSA.3257	R17128	(-\$3,778)	2	
5673.0503	C293804	(-\$5,657)	3	

AMENDMENT OF SOLICITATIO	DIFICATION	OF CONTRACT	1. C' ACT ID CC	DDE PAGE	OF PAGES
2. AMENDMENT/MODIFICATION NO 3. EFFECT 30 09	VE DATE 4. R 1/12/1995	EQUISITION/PURCHASE	REQ. NO.	5. PROJECT NO.	(Il applicable)
6. ISSUED BY CODE	7. A	DMINISTERED BY (II O	ther than Item 6)	CODE	
National Aeronautics and Space Admir Langley Research Center	nistration				
Hampton, VA 23681-0001			·····		
	et, county, State and ZIP C	oda) (v	9A. AMENDMENT OF	SOLICITATION NO.	
Aero Systems Engineering, Inc.	orporated				
358 E. Fillmore Avenue			98. DATED (SEE IT	'EM 11)	
St. Paul, MN 55107-1289					
				IAS1-20001	ER NO.
CODE			10B. DATED (SEE IT	4-30-93	
	TEM ONLY APPLIES TO	AMENDMENTS OF S	OLICITATIONS		
•	IOR TO THE HOUR AND [ , such change may be mad ir and date specified. 	ATE SPECIFIED MAY RE	SULT IN REJECTION OF 1	OUR OFFER. If by	virture of this
See Page 2 Accounting and Appropriation	Data				
	EM APPLIES ONLY TO MO		•		
<ul> <li>(√) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO ITEM 10A.</li> <li>B. THE ABOVE NUMBERED CONTRACT/ORDER IS alc) SET FORTH IN ITEM 14, PURSUANT TO</li> </ul>	MODIFIED TO REFLECT T	HE ADMINISTRATIVE CH.	··		
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERE	D INTO PURSUANT TO AU	THORITY OF:			
D. OTHER (Specify type of modification and authori					
E. IMPORTANT: Contractor X is not.	is required to sign this doc	ument and return	copies to the issuing office.	<del>.</del>	<u></u>
14. DESCRIPTION OF AMENDMENT/MODIFICATION SUBJECT: Contract NAS1-20001; Engir Systems	(Organized by UCF section	headings, including solicit	ation/contract subject matte	r where (easible)	tion
The purpose of this modification is to add Accordingly, the Contract Schedule is cha (JUN 1991) Paragraph A is restated as fol	nged as follows: B.	•	•		
Except as provided herein, all terms and conditions of the d	ocument referenced in Item	9A or 10A, as herelafore c	hanged, remains unchanged	d and in full force and	effect.
15A. NAME AND TITLE OF SIGNER (Type or Print)		Charlotte T. Ha	•	FICER (Type or Pri	ini)
158. CONTRACTOR/OFFERCR	15C. DATE SIGNED	168. UNITED STATE	S OF AMERICA	16C. D	ATE, SIGNED
(Signature of person authorized to sign) NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE NASA - Langley Overprint (DEC 1986)		(Signa 30-105	ture of Contracting Officer)	STANDARD FORM 30 Prescribed by GSA	(Rev 10-83)
	FILE	COPY		FAR (48 CFR) 53.243	

- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$2,277,331. This amount is to cover the Government's obligation for performance of work in accordance with the limitation and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$114,174 is obligated under this contract for payment of fee."
- NOTE: The new amount reflects an increase of \$111,535 from \$2,265,796 to \$2,377,331 for payment of cost and an increase of \$5,465 from \$108,709 to \$114,174.

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# CONTRACT SUMMARY

Thru Mod 29		<u>Mod 30</u>	<u>Total</u>	
Hours:	80,000 h <b>rs</b> .	0	80,000 hours	
Est. Cost:	\$5,787,900	0	\$5,787,900	
Fixed Fee:	\$ 285,400	0	\$ 285,400	

# FUNDING SUMMARY

Present Funding	Increased by this Mod	<b>Revised Amount</b>
\$2,374,505	\$117,000	\$2,491,505

### ACCOUNTING AND APPROPRIATED DATA

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<u>P/R</u>	<u>J/O</u>	<u>Amount</u> <u>T</u>	<u>ask Ref.</u>
GGI.1076 GGI.1077	C295302 C295300	\$25,000 (complete) \$25,000 (complete)	13 17 13 17
GGI.1079	C9223AG	\$67,000 (complete)	16

9/18/95 5. Finor Poluined Sinking

AMENDMENT OF SOLIC	CITATION/	DIFICATION	OF CO	NTRACT	1. 51	ACT :0 CC0	DE PA	GE OF PAGES
2. AMENOMENT/MODIFICATION NO. 29	3. EFFECTIV	24/1995	REQUISITIO	CN/PURCHASE R	EG. NO.		5. PROJEC	TNC. (If application
3. ISSUED BY	CODE	7	ACMINIST	RED BY (If stre	r :han item ő)	<u>_</u>	CCCE	
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	-	stration						
3. NAME AND ADDRESS OF CONTRACT	CR No. street	l. county, State and ZiP	P Cocell		A AMEN	MENTICE		
Aero Systems Engi								
358 E. Fillmore Ave	-	porated			SB. CATED	SEE T	EM 111	
St. Paul. MN 5510	7-1289							
							FICONTRAC	TCADER NO.
				J			AS1-200	
000E				¥	105. CATE	SEE :T:	<u>н :з)</u> 4-30-93	
		EM ONLY APPLIES						
The acove number solicitation is am Citers must acknowledge receipt of this ame (a) By completing items 3 and 15, and return (b) By secarate letter or telegram which inclu- PLACE DESIGNATED FOR THE RECEIPT amenoment you desire to change an order au and this amendment, and is received prior to	endment prior to the ning œbies udes a feterance to OF OFTERS PRIO iready submitted, s	e nour and date specifi of the amendement ; () is the solicitation and an DR TO THE HOUR AN such change may be m	ed in the solid b) By acknow henoment hur D DATE SPE	atation or as amend ledging receipt of t ncers. FAILURE C OIFIED MAY RESI	ted , by che o his amenomer OF YOUR ACH JUT IN REJEC	nt on each d KNOWLEDG DTION OF Y	EMENT TO S	BE RECEIVED AT TH
12. ACCOUNTING AND APPROPRIATION See Page 2	I CATA (If Re	ecured)						
		MAPPLIES ONLY TO TIES THE CONTRACT				s.	······	<u></u>
ITEM 10A.       J. THE ABOVE NUMBERED CONTR.       JC)     SET FORTH IN ITEM 14.       C. THIS SUPPLEMENTAL AGREEM	PURSUANT TO T	THE AUTHORITY OF F	FAR 43.103(b	)	NGES (sucr	as charges	n caying off	ice, acorocration ca
3. OTHER (Specify type of modific	auch and authonty,	)						
			·····					<u>.</u>
E. IMPORTANT: Contractor X is a	not ,	s required to sign this	document and	a reium a	coles to the is	suing office.		
14. DESCRIPTION OF AMENEMENT/MO SUBJECT: Contract NAS1-2 Systems	(	Grganized by UCF sec Bering Design, D	-	-				
The purpose of this modificati Accordingly, the Contract Sch (JUN 1991) Paragraph A is re	edule is chan	ged as follows:						
Except as provided herein, all terms and d		cument referenced in 1	em 3A or 104	. as hereioiore cha	nged, remain	s unchange	t and in full fo	rca and artact.
TEALNAME AND TITLE OF SIGNER (7/)			· 6A.	NAME AND TITLE	OF CONTRA			
HE CONTRACTOR/CETERCR		150. DATE SIGNE	с <u>168.</u> ЗҮ	UNITED STATES				ALIG 2 4 1
Signature of cerson authorized to st					r <del>a di</del> Genirae:			
PREVIOUS EDITIONS JUNUSABLE NA TAI - Langley Oliveroring (DED 1986)	{	. : <u>=</u> - : ;	04105 V				STANCARD Prescription by	-35A

SECURIC SOLFICILE INTERACT	
PREVIOUS EDITIONS LINUSABLE	
NATA - Langley Clandron (DEC) 10	19-1

Page 2 of 2

- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$2,265,796. This amount is to cover the Government's obligation for performance of work in accordance with the limitation and completion dates as set forth in task assignments authorized by the Contracting Officer.
  - B. An additional amount of \$108,709 is obligated under this contract for payment of fee."
- NOTE: The new amount reflects an increase of \$132,011 from \$2,133,785 to \$2,265,796 for payment of cost and an increase of \$6,469 from \$102,240 to \$108,709.

# CONTRACT SUMMARY

Thru	<u>1 Mod 28</u>	<u>Mod 29</u>	Total
Hours:	80,000 hrs.	0	80,000 hours
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

## FUNDING SUMMARY

Present Funding	Increased by this Mod	Revised Amount
\$2,236,025	\$138,480	\$2,374,505

### ACCOUNTING AND APPROPRIATED DATA

<u>P/R</u>	<u>J/O</u>	Amount	<u>Task Ref.</u>
GGH.1605	C295305	\$ 26,480 (complete)	•
GGH.1606	C295305	112,000 (complete)	

AMENDMENT OF SOLICIT	TATION,	DIFICATION	OF CONT	RACT	1.0 IACT	DICCCE	PAGE 1	CF PAGES
2. AMENOMENT/MODIFICATION NO. 28	1. EFFECTIVE 07/31	OATE 4	4. REQUISITION/PURCHASE REQ. NO GGH 1600			5. PPC	JECT NO.	(If acciicacle)
B. SSUED BY CC	CE	7	. ADMINISTERED	3Y (If other	than lem 5)	CCDE	=	
National Aeronautics and Spa Langley Research Center Hampton, VA 23681-0001	ce Administ	ration					<u> </u>	
3. NAME AND ADDRESS OF CONTRACTOR	No., street, c		? Code)	(1)	3A. AMENDMEN	T OF SOLICIT	ATION NO	
Aero Systems Enginee	ering, Incorp	orated						
358 E. Fillmore Avenue St. Paul. MN 55107-1289					98. CATED (SEE TEM 11)			
					10A. MODIFICATION OF CONTRACTORDER NO. N.A.S.1-20001			
					V 108. CATED (SEE ITEM 13) 4-30-93			
00DE	FACILIT	Y CODE		1			-95	
The above number solicitation is amend Offers must acknowledge receipt of this amenda (a) By completing items 8 and 15, and returning (c) By separate letter or telegram which includes PLACE DESIGNATED FOR THE RECEIPT OF amendment you desire to change an offer alread and this amendment, and is received prior to the	ment prior to the h codies of s a <del>Telere</del> nce to th CFFERS PRICR dy sucmitted, suc	tour and date specifi the amendement ; ( ne solicitation and an LTO THE HOUR AN th change may be m	ed in the solicitation b) <u>By acknowledgin</u> nendment numbers D DATE SPECIFIE	t or as amend ig receipt of th . FAILURE O D MAY RESU	ed , by one of the fo is amendment on e F YOUR ACKNOW LT IN REJECTION	ach copy of the LEDGEMENT	ds: e offer subr TO BE RE FER, if by	CEIVED AT THE VITURE of this
12. ACCOUNTING AND APPROPRIATION CA P/R: GGH 1600; J/O: C295306	· · · ·		Task No. 15				<u> </u>	<del></del>
****		APPLIES ONLY TO S THE CONTRACT					<u>.                                    </u>	<u> </u>
	TORDER IS MOD	DIFIED TO REFLEC	T THE ADMINISTR			<u> </u>		
C. CTHER (Specify type of modification	n and authority)							
E. IMPORTANT: Contractor X is not	, 🗌 is r	required to sign this	document and retur	n∞	pies to the issuing o	office.		
14. DESCRIPTION OF AMENDMENT/MODIF SUBJECT: Contract NAS1-200 Systems		ganized by UCF sec ring Design, D	-	-			-	ation
The purpose of this modification Accordingly, the Contract Schede (JUN 1991) Paragraph A is resta	ule is change	ed as follows:			-			
Except as provided herein, all terms and condi-		nant referenced in it						
15A, NAME AND TITLE OF SIGNER (Type 3	r Part)		)	EAND TITLE te T. Hard	OF CONTRACTING	G OFFICER	(Type or P	Print)
SUBALIZA DI DASCO AUTORIZATI O CON		SC. CATE SIGNE	0 168. UNIT	Ltt	5 5. #	· 	16C.	DATE SIGNED
Signature of derson authorized to signal NSN 7540-01-152-8070 255 June Tout only a Michael C	<u> </u>	<u> </u>	30-105	Signaturi	e of Contracting Off		ARD FORM	10 Pov 12-301
PERIOUS EDITIONS UNUSABLE NAGA - Langley Overdrint (DEC 1986)			C. 20-105			Praterio	ed by CSA	

# Page 2 of 2

- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$2,133,785. This amount is to cover the Government's obligation for performance of work in accordance with the limitation and completion dates as set forth in task assignments authorized by the Contracting Officer.
  - B. An additional amount of \$102,240 is obligated under this contract for payment of fee."
- NOTE: The new amount reflects an increase of \$405,148 from \$1,728,637 to \$2,133,785 for payment of cost and an increase of \$19,852 from \$82,388 to \$102,240.

## CONTRACT SUMMARY

Thru	<u>1 Mod 27</u>	<u>Mod 28</u>	<u>Total</u>
Hours: Est. Cost:	80,000 hrs. \$5,787,900	0 0	80,000 hours \$5,787,900
Fixed Fee:	\$ 285,400	0 FUNDING SUMMARY	\$ 285,400
<u>Present Fur</u>	nding	Increased by this Mod	Revised Amount
\$1,811,025		\$425,000	\$2,236,025

AMENDMENT OF SOLI	J. EFFECT	IVE DATE	4. REQUISITION/PURCH	ASE RE		5, 290		ilf acclicac
27		/21/1995		H 160		3. 1.50	acor ao.	(II acclicat
SSUED BY	CCOE		7. ADMINISTERED BY	(II othe	than tem ô)	CCCE		
National Aeronautics and Langley Research Center Hampton, VA 23681-000		ustration						
S. NAME AND ADDRESS OF CONTRAC	TCR (Nc., stre	et, œunty, State and Z	IP Codel	(1)	JA. AMENCMENT			
Aero Systems Eng	ineering. Inco	proprated						
358 E. Fillmore A	venue	·			SE. DATED (SE	E.TEM (1)		
St. Paul. MN 551	07-1289							
					10A. MODIFICATIO	ON OF CONT NAS1-1		ER NO.
CCE				-	108. DATED	<u>е пем :з)</u> 4-30-	.93	
			S TO AMENDMENTS					
b) Sy separate letter or telegram which inc LACE DESIGNATED FOR THE RECEIP menoment you desire to change an other of this produced and is change.	T OF OFFERS PRI already submitted ,	IOR TO THE HOUR AN , such change may be r	ND DATE SPECIFIED MA	Y RESU	LT IN REJECTION (	OF YOUR OF	EEB. If by	victure of this
2. ACCOUNTING AND APPROPRIATIO	N DATA (IF -	Required)	Task No. 12		· · · · · · · · · · · · · · · · · · ·			<u> </u>
A this amendment, and is received prior 2. ACCOUNTING AND APPROPRIATIO 2/R: GGH 1601; J/O: C2953	N CATA (17.5 805 \$201.000 13. THIS ITI IT MODI	Recuired) ) (Complete) EM APPLIES ONLY TO IFIES THE CONTRACT	Task No. 13 D MODIFICATIONS OF CO T/ORDER NO. AS DESCR	AIBED IN	LITEM 14.			
2. ACCOUNTING AND APPROPRIATIC /R: GGH 1601; J/O: C2953	N CATA (IF. 305 \$201.000 13. THIS ITI IT MODI ED PURSUANT TO BACT/CRDER IS N	Required) (Complete) EM APPLIES CNLY TO IFIES THE CONTRACT D: (Specify Authority)	D MCDIFICATIONS OF C T/CRDER NO. AS DESC THE CHANGES SET	FORTH	I ITEM 14.			
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Page 2 of 2

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- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$1,728,637. This amount is to cover the Government's obligation for performance of work in accordance with the limitation and completion dates as set forth in task assignments authorized by the Contracting Officer.
  - B. An additional amount of \$82,388 is obligated under this contract for payment of fee."
- NOTE: The new amount reflects an increase of \$191,611 from \$1,537,026 to \$1,728,637 for payment of cost and an increase of \$9,389 from \$72,999 to \$82,388.

# CONTRACT SUMMARY

Thr	u Mod 26	<u>Mod 27</u>	Total
Hours:	80,000 hrs.	0	80,000 hours
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

Present Funding	Increased by this Mod	<u>Revised Amount</u>
\$1,610,025	\$201,000	\$1,811,025

AMENDMENT OF BOLICI	TATICA		 . T	1. LL AACT 10 CO	σε	PAGE	OF PADER
2. AMENOMENT/MODIFICATION NO.	S. EFFEOTIVE DATE	4. REQUISITION/PURCH			6 896	1	2
26	JUL 1 1 1995			Q. NO.	<b>3.</b> PAC	JIECT NO.	(If applicable)
6. ISSUED BY	D0E	7. ADMNISTERED BY	(If othe	then lien 6)	COD	E	
National Aeronautics and Spi	ace Administration						
Langley Research Center							
Hampton, VA 23681-0001		<u> </u>					
8. NAME AND ADDRESS OF CONTRACTOR		ZIP Octo)	(~)	BA. AMENDMENT OF	SOLICIT	ATION NO	ł.
Aero Systems Englne 358 E. Fillmore Aver	- •					• <del>• • • • • • • • • • •</del>	
St. Paul, MN 55107				98. DATED (8E5 IT.	EM 11)		
				10A. MODIFICATION C	NE 00117		
			1		IAS1-		264 NO.
CODE	FACILITY CODE			108. DATED (SEE IT	EM 13) 4-30	.01	
	11. THIS ITEM ONLY APPLI	ES TO AMENDUENTS					
The above number solicitation is amen Offers must acknowledge receipt of this amend (a) By completing items 8 and 18, and returning (c) By separate letter of telegram which include PLACE DESIGNATED FOR THE RECEIPT OF amendment you desire to change an offer sired and this amendment, and is received prior to the	mant prior to the hour and date spe cooples of the amendament a a reference to the soficitation and OFPERS PRIOR TO THE HOUR dy submitted, such change may b	icilied in the solicitation or as (; (b) By acknowledging rece I amentiment numbers. FAIL ANO DATE BPECIFIED MAN e made by telegram or letter,	amende ipt of thi URE OI ( REBU	ed, by on <mark>s of th</mark> e followin is amendment on each o F YOUR ACKNOWLEDG LT IN REJECTION OF Y	ng metho opy of th EMENT OUR OF	de; e offer subn TO BE REG FEB, 11 by	CEIVED AT THE
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V C. THIS SUPPLEMENTAL AGREEMEN Mutual Agreement	SENTERED INTO PURSUANT	TO AUTHORITY OF:					<u> </u>
D. OTHER (Specify type of modificatio	n and authority)						
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E. IMPORTANT: Contractor la not	. X is required to sign th	a document and return 3	<u></u>	las to the issuing office.			
14. DEBCRIPTION OF AMENDMENT/MODIF SUBJECT: Contract NAS1-200 Systems		bection hendings, inducting se Development, Instal		•			ition
The purpose of this modification Advance Agreement of Indirest F contract:		• •		=			
Except as provided herein, all terms and cond	tona of the socument referenced in	n liem 24 or 104, as hareloic		ged, remains unchanged	t and in t	ul larce and	s elfect.
154. NAME AND TITLE OF SIGNER (TYPE				OF CONTRACTING OFF	ICSA	(Type or Pi	((/1))
JAMES R. VINKINS DSSIT	MINALEN, F. ASTERNO () 15C. DATE BIOI			FAMERICA			DATE SIGNED
James & Dinkin	TULY 10,1	485 3Y R	xe	ling 2		- 7	1,10-
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		FILE C	$\mathbb{C}^{\mathbb{C}}$	Y			

Page 2 of 2

NAS1-20001 Modification No. 26

- A. Clause F.5 entitled Period of Performance Task Assignments (LaRC 52.212-112 is changed by deleting Paragraph A and substituting the following:
  - "A. The period for issuance of task assignments is sixty (60) months from the effective date of this contract"
- B. Effective the first date of the extension period, (May 1, 1996), Clause H.7 entitled "Advance Agreement on Indirect Rate(s) (LaRC 52.231-90) (JUN 1988) Paragraph A. is revised by changing the G&A and Overhead ceiling percentages. The ceiling percentage for G&A is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is changed to mand the ceiling percentage for Overhead is change

C. All other terms and conditions remain unchanged

## CONTRACT SUMMARY

Thru Mod 25	<u>Mod 26</u>	Total
Hours: 80,000 hrs	0	80,000 hours
Est. Cost: \$5,787,900	0	\$5,787,900
Fixed Fee: \$ 285,400	0	\$ 285,400

## FUNDING SUMMARY

Present Funding

Increased by this Mod

\$1,610,025

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National Aeronautics and S Langley Research Center Hampton, VA 23681-0001								
3. NAME AND ADDRESS OF CONTRACT		liate and ZIP Code	ə)	$\langle \mathbf{v} \rangle$	9A. AMENOMENT C	F SOLICI		
Aero Systems Engir	neering. Incorporated							
358 E. Fillmore Ave				F	98. DATED (SEE)	TENTI		
St. Paul, MN 5510	)7-1289							
						NASI-		DERINC.
CDE	FACILITY CODE	······			108. CATED (SEE ,	т <u>ем із)</u> 4-30	)-93	
	11. THIS ITEM ONLY		MENDMENTS OF	SOLI	CITATIONS		. <u></u>	
b) By separate letter or telegram which inclu LACE DESIGNATED FOR THE RECEIPT I mendment you desire to change an offer all no this amendment, and is received prior to provide the second second second second second second second second second second se	OF OFFERS PRIOR TO THE Iready submitted , such chang to the opening hour and date sp	HOUR AND DAT e may be made by	TE SPECIFIED MAY	RESUL	T IN REJECTION OF	YOUR CI	FFER. If by	virture of this
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- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$1,537,026. This amount is to cover the Government's obligation for performance of work in accordance with the limitation and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$72,999 is obligated under this contract for payment of fee."
- NOTE: The new amount reflects an increase of \$95,329 from \$1,441,697 to \$1,537,026 for payment of cost and an increase of \$4,671 from \$68,328 to \$72,999.

# CONTRACT SUMMARY

<u>Thr</u>	<u>u Mod 24</u>	<u>Mod 25</u>	Total
Hours:	80,000 hrs.	0	80,000 hours
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	· 0	\$ 285,400

Present Funding	Increased by this Mod	<u>Revised Amount</u>
\$1,510,025	\$100,000	\$1,610,025

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AMENDMENT OF SOLICI	T/. I/MODIFICATI	ON OF CONTRAC	т	CONTRACTIO CO	006	PAGE OF PAGES
2 AMENDMENT/MODIFICATION NO. 24	3. EFFECTIVE DATE 05/23/1995	4. REGUISITION/PURCHA	ASE RE		5. PROJ	ECT NO. (If applicable
5. ISSUED BY CC		7. ACMINISTERED BY	(If othe	r (han item 6)	CODE	
National Aeronautics and Spa Langley Research Center Hampton, VA 23681-0001	ace Administration					
3 NAME AND ADDRESS OF CONTRACTOR	R (No., street, county, State and	1 ZIP Coce)	()	JA. AMENDMENT OF	SOLICITA	TION NO.
Aero Systems Engine	ering. Incorporated					
358 E. Fillmore Aven				98. DATED (SEE )7	'EM 11)	
St. Paul. MN 55107-	-1289					
			~		NAS1-20	
CODE	FACILITY CODE			108. DATED (SEE /1	<u>тем га)</u> 4-30-9	93
	11. THIS ITEM ONLY APPLI		E SOI		·	
<ul> <li>(a) By completing items 3 and 15, and returning</li> <li>(c) By separate letter or telegram which include PLACE DESIGNATED FOR THE RECEIPT OF amendment you desire to change an offer alrea and this amendment, and is received prior to the</li> <li>*2. ACCOUNTING AND APPROPRIATION DA</li> </ul>	s a Telerence to the solicitation and CFFERS PRIOR TO THE HOUR dy submitted, such change may b e opening hour and date specified.	AND DATE SPECIFIED MAY the made by telegram or letter.	URE O	F YOUR ACKNOWLED LT IN REJECTION OF 1	GEMENT TO	O BE RECEIVED AT THE ER. If by virture of this
P/R: GGH 1583; J/O: C295305	\$100.000 (Complete)	<u></u>				
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C. THIS SUPPLEMENTAL AGREEMENT	SENTERED INTO PURSUANT	TO AUTHORITY OF:				
D. OTHER (Specify type of modification	n and authority)					
E. IMPORTANT: Contractor X is not .	is required to sign it	his document and return		ties to the issuing office.	<u></u>	·
14. DESCRIPTION OF AMENDMENT MODIF SUBJECT: Contract NAS1-200 Systems	CATION (Crganized by UCF :	section headings, notuding so	licitatio	r/contract subject matte		
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(JUN 1991) Paragraph A is resta		n stem 3A or 10A, as heretolor	e chan	ged, remains unchanged	t and in ful	force and effect
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(JUN 1991) Paragraph A is resta Ercept as provided herein, all terms and condi- toal mame and FIFLE OF SIGNER (Type of toal contractor/OFFERCR	tions of the document referenced	Charlotte T. I NED 168. UNITED 37 37	Hardy Hardy TES D	FAMERICA		
(JUN 1991) Paragraph A is resta Except as provided herein, all terms and condi- tSA NAME AND TITLE OF SIGNER (Type of	tions of the document referenced r Print) 15C, DATE SIG	Charlotte T. I NED 168. UNITED 37 37	Hardy Hardy TES D	DF CONTRACTING OFF		150 DATE SIGNED 5/23/21

- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$1,441,697. This amount is to cover the Government's obligation for performance of work in accordance with the limitation and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$68,328 is obligated under this contract for payment of fee."
- NOTE: The new amount reflects an increase of \$95,328 from \$1,346,369 to \$1,441,697 for payment of cost and an increase of \$4,672 from \$63,656 to \$68,328.

# CONTRACT SUMMARY

Thr	u Mod 22	<u>Mod 24</u>	Total
Hours:	80,000 hrs.	0	80,000 hours
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

Present Funding	Increased by this Mod	<u>Revised Amount</u>
\$1,410,025	\$100,000	\$1,510,025

AMENDMENT OF SOLICI	TATION/MODIFICAT	ION OF CONT	RACT	I CONTRACTIO	CCE	PAGE	OF PAGES
2 AMENOMENT MODIFICATION NO 23	3. EFFECTIVE DATE 03/27/1995	A REQUISITIOMPURCHASE REQ NO S PROJECT NO.			ECT NO.	(If applicable)	
6. ISSUED BY		7 ACMINISTERED	BY (If sthei	r than item 5)	cod	d	
National Aeronautics and Sp Langley Research Center Hampton, VA 23681-0001	ace Administration						
3. NAME AND ADDRESS OF CONTRACTO	R :No., street, county, State ar	na ZIP Cocei	· / ·	9A. AMENDMENT C	F SOLICIT	ATION NO	).
Aero Systems Engine 358 E. Fillmore Aver St. Paul. MN 55107-	nue					1 000	DER NO.
CCDE	FACILITY CODE				4-30-9	93	
	11. THIS ITEM ONLY APPL	ES TO AMENDMEN	TS OF SOL				
Offers must acknowledge receipt of this amen (a) By completing Items 8 and 15, and returnin (c) By secarate letter or telegram which includ THE PLACE DESIGNATED FOR THE RECE virture of this amendment you desire to chang to the solicitation and this amendment, and is 12. ACCOUNTING AND APPROPRIATION (	ng copies of the amender les a reference to the solicitation IPT OF OFFERS PRIOR TO TH received prior to the opening hor ceceived prior to the opening hor DATA (If Recuired)	nent ; (b) By acknowled and amendment numb E HOUR AND DATE SF ich change may be mad	ging receipt over the second sec	of this amendment on E OF YOUR ACKNOV AY RESULT IN REJEC	each copy o NLEDGEME	of the offer ENT TO B YOUR OF	E RECEIVED AT
P/R: GGH.1569; JO: C295302				<del>~</del>		·	······································
· · · · · · · · · · · · · · · · · · ·	13. THIS ITEM APPLIES ONLY	TO MODIFICATIONS C	F CONTRAC	CTS/CRDERS.			
A. THIS CHANGE ORDER IS ISSUED     IN ITEM 10A.     B. THE ABOVE NUMBERED CONTRACT	·····						
Cate. atc) SET FORTH IN ITEM 14. P							
C. THIS SUPPLEMENTAL AGREEMEN	IT IS ENTERED INTO PURSUA	NT TO AUTHORITY OF	•:				
D. OTHER (Specify type of modification	on and authority)		<u> </u>				<u></u>
E. IMPORTANT: Contractor X Is no	t. is required to sig	in this document and rel	นก	copies to the issuing	office.		······································
14. DESCRIPTION OF AMENDMENT/MODI SUBJECT: Contract NAS1-200 Systems							omation
The purpose of this modification Accordingly, the Contract Scheo (JUN 1991) Paragraph A is resta	tule is changed as follo			-			
Except as provided herein, all terms and con	ditions of the document reference	ed in item 3A pr. 10A, as	neretolore s	hanged, remains uncr	anged and	in full forc	e and effect.
154 NAME AND TITLE OF SIGNER Type 2			AND TITLE				
58 CONTRACTOR/OFFERCR	SC. CATE SIC	ANED 168. UNITE	STATES C	FAMERICA II		:60. 0	ATE SIGNED
Signature of person authorized to sign ISN 7540-31-152-0070 PREVIOUS EDITIONS UNUSABLE			Signature	or Contracting Officer	STANDARI Prescribed	0 FORM 30	D Rev : 0-80.

PREVIOUS EDITIONS UNUSABLE	
NASA - Langley Overonnt (DEC)	1986)

- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$1.346.369. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer."
- B. An additional amount of \$63,656 is obligated under this contract for payment of fee.

NOTE: The new amount reflects an increase of \$95,328 from \$1,251,041 to \$1,346,369 for payment of cost and an increase of \$4.672 from \$58,984 to \$63,656.

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# CONTRACT SUMMARY

# <u>Thru Mod 22</u>

Hours:	80	,000 hrs.
Est. Cost:	\$5	,787,900
Fixed Fee:	\$	285,400

<u>Mod 23</u> 0 0 0

80,000 hrs. \$5,787,900 \$ 285,400

Total

Present Funding	Increased by this Mod	Revised Amount
\$1,310,025	\$100,000	\$1,410,025

AMENDMENT OF SOLICIT		ICATION C	F CONTRAC	T	I ATRACT ID CO	COE	PAGE (	OF PAGES
AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE 03/20/199		DUISITIONPURCH	ASE R	EQ. NO.	5. PROJI	ECT NO.	(Il applicable)
ISSUED BY C		7. ACI	MINISTERED BY (	lf othe	r than item 6)	cot	Del	
National Aeronautics and Sp Langley Research Center Hampton, VA 23681-0001	ace Administrati	on						
3. NAME AND ADDRESS OF CONTRACTO	R (No., street, county	, State and ZIP Co	de)	(√)	9A. AMENDMENT CI	FSOLICIT	ATION NO	<u>.</u>
Aero Systems Engine 358 E. Fillmore Aver					98. DATED (SEE IT	ГЕМ 11)		
St. Paul, MN 55107-	1289			 J	10A. MODIFICATION	OF CONT		IDER NO.
CDE				v	10B. DATED (SEE IT	ГЕМ 13) 4-30-9	93 93	<u> </u>
	FACILITY COL						• • • • • • • • • • • • • • • • • • •	
inture of this amendment you desire to chang to the solicitation and this amendment, and is 2. ACCOUNTING AND APPROPRIATION I P/R: GGH.1566; JO: C295302	received prior to the op DATA (If Required)	ening hour and da	te specified.		ייי שי אפונפר, סרסעונפס פא			maxes referen
	13. THIS ITEM APPLIE	ES ONLY TO MOD	IFICATIONS OF CO	NTRA	CTS/CRDERS,			
<ul> <li>A. THIS CHANGE ORDER IS ISSUED IN ITEM 10A.</li> <li>B. THE ABOVE NUMBERED CONTRA date, etc) SET FORTH IN ITEM 14, F</li> </ul>	CT/ORDER IS MODIFI	ED TO REFLECT						
C. THIS SUPPLEMENTAL AGREEME	NT IS ENTERED INTO	PURSUANT TO A	UTHORITY OF:			··		
D. OTHER (Specify type of modification	on and authority)	<u></u>				· <u> </u>		
. IMPORTANT: Contractor X is no	ot, is requ	ired to sign this do	curnent and return		copies to the issuing	office.		
14. DESCRIPTION OF AMENDMENT/MOD SUBJECT: Contract NAS1-20 Systems		•			•			
The purpose of this modificatio Accordingly, the Contract Sche (JUN 1991) Paragraph A is rest	dule is changed				-			
Except as provided herein, all terms and cor	nditions of the documen	t referenced in Iter	n 9A or 10A, as here	tofore	changed, remains unch	hanged and	d in fuil for	ce and effect.
5A. NAME AND TITLE OF SIGNER (Type o	or Print)		16A. NAME AND Charlotte T.		OF CONTRACTING C	FFICER (	(Type or P	irint)
58. CONTRACTOR/OFFEROR	15C.	DATE SIGNED	168. UNITED ST	ATES	OF AMERICA	-1		DATE SIGNED
(Signature of derson authorized to sign NSN 7540-01-152-8070	(1			gnatu	e of Contracting Office		-	
PREVIOUS EDITIONS UNUSABLE NASA - Langley Overprint (DEC 1986)			5-105			Prescribe	RD FORM Id by GSA CFR) 53.24	

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(

- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$1,251,041. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer."
- B. An additional amount of \$58,984 is obligated under this contract for payment of fee.

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# CONTRACT SUMMARY

Thru	<u>1 Mod 21</u>	<u>Mod 22</u>	<u>Total</u>
Hours: Est. Cost: Fixed Fee:	80,000 hrs. \$5,787,900 \$ 285,400	0 0	80,000 hrs. \$5,787,900 \$ 285,400

# FUNDING SUMMARY

Present Funding	Increased by this Mod	Revised Amount
\$1,110,025	\$200,000	\$1,310,025

3

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NOTE: The new amount reflects an increase of \$190,658 from \$1,060,383 to \$1,251,041 for payment of cost and an increase of \$9,342 from \$49,642 to \$58,984.

	1 _				1			
AMENDMENT OF SOLI	CITATION/M	ODIFICAT	ION OF CO	NTRACT	1.000	OT ID CODE	24GE	OF PAGES
2. AMENOMENT/MODIFICATION NO.	J. EFFECTIV	7 1995	4. REQUISITIO	N/PURCHASE	REQ. NO	5. PR	OJECT NO	). (If applicable)
i. ISSUED BY	CODE		7. ADMINISTE	RED BY (If off	ter than item ô	·/· · · · · · · · · · · · · · · · · · ·	COE	
National Aeronautics and Langley Research Center Hampton, VA 23681-000	•	istration						
9. NAME AND ADDRESS OF CONTRA	CTOR (No., street	t, county, State ar	nd ZIP Cude)		9A. AMENI	DMENT OF SOLIC	TATION	NO.
Aero Systems Eng 358 E. Fillmore A St. Paul, MN 551	venue					) (SEE ITEM : 1,		
	07-1202			J	10A. MODIE	FICATION OF CO NASI	NTRACT/C -20001	RDER NO.
CODE	FACILI	ITY CODE		·	108. DATE	(SEE ITEM 13 4-31	) )-93	··········
	11. THIS ITE	M ONLY APPL	IES TO AMEND	MENTS OF S	OLICITATION	NS		
c) By separate letter or telegram which in THE PLACE DESIGNATED FOR THE RI initure of this amendment you desire to cl o the solicitation and this amendment, and 2. ACCOUNTING AND APPROPRIATION P/R: GGH.1552; JO: R1952	ECEIPT OF OFFER hange an offer alrea ind is received prior to CN DATA (If Re	IS PRICE TO TH Idy submitted, su the opening how muired)	E HOUR AND DA'	TE SPECIFIED made by telegi	MAY RESULT	IN REJECTION C	F YOUR C	OFFER. If by
-7K: GGH.1552; JO: R1952								
	IS. THIS ITEM	APPLIES UNLY	TO MODIFICATIO		ACTS/OHDEH	15,		
7)       A. THIS CHANGE ORDER IS ISSUINTED TO A         IN ITEM 10A.         J. THE ABOVE NUMBERED CONTIGUE, atc).         SET FORTH IN ITEM 1	TRACT/ORDER IS N 4. PURSUANT TO	MCDIFIED TO RI THE AUTHORIT	EFLECT THE ADM Y OF FAR 43.103(	IINISTRATIVE		ARE MADE IN T		
C. THIS SUPPLEMENTAL AGREE	MENTIS ENTEREI	D INTO PURSUA	INT TO AUTHORI	IY OF:				
D. OTHER (Specify type of modifi	ication and authority	1)						
	s not .	is required to sid	on this document a	nd return	copies to th	e issuing office.		
14. DESCRIPTION OF AMENDMENTA SUBJECT: Contract NAS1- Systems					ation/contract s	subject matter who		
The purpose of this modifica Accordingly, the Contract Sc (JUN 1991) Paragraph A is r	chedule is char	nged as follo				-		
Except as provided herein, all terms and	conditions of the do	ocument referenc	ed nitem 3A or 10	A. as heretolor	e changed, rem	ains unchanged :	and in fuil to	proe and effect.
5A. NAME AND TITLE OF SIGNER . TY	pe or Pant)			AME AND TITL lotte T. Har		ACTING OFFICER	Type or ∶	2:00)
SB. CONTRACTOR OFFERDR	·····	15C. DATE SIG	GNED 58 J	NITZOSTATE	SOF AMERIC	Have	•5C.	DATE SIGNED
Signature of person authorized to	signi			Şiçnalı	ire or Contractio			121/7
PREVICUS EDITIONS UNUSABLE NASA - Langley Overprint (DEC 1986)			3 <b>0-</b> 305			Presco	)ARO FORM 000 CY (35A 8 (27R) 53 2-	

- "A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$1.060.383. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer."
- NOTE: The new amount reflects an increase of \$33,045 from \$1.027.338 to \$1,060.383 for payment of cost. The fee pool remains at \$49,642.

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## CONTRACT SUMMARY

# Thru Mod 20

Hours:	80,000 hrs.
Est. Cost:	\$5,787,900
Fixed Fee:	\$ 285,400

<u>Mod 21</u> <u>Total</u> 0 80,00 0 \$5,78 0 \$ 28

80,000 hrs. \$5,787,900 \$ 285,400

## FUNDING SUMMARY

Present Funding

Increased by this Mod

Revised Amount

\$1,076,980

\$33,045

\$1,110,025

NAS1-20001 Modification No. 21 Page 2 of 2

	(			. (		
AMENDMENT OF SOLIC	ITATION/I	MODIFICATION	OF CONTRACT	1. CLAIFRACT I	D CODE PAG	E OF PAGE
2. AMENDMENT/MODIFICATION NO. 20	3. EFFECT	IVE DATE 4. R	EQUISITION/PURCHASE	REQ. NO.	5. PROJECT	
6. ISSUED BY	CODE	7. AI	DMINISTERED BY (If o	ther than item 6)	3000	
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001		nistration				
3. NAME AND ADDRESS OF CONTRAC	TOR (No., stre	et, county, State and ZIP C	2009) (1	) 9A. AMENDMEN		ON NO.
				-		
Aero Systems Engi 358 E. Fillmore Av	-			98. DATED (SE	Е (ТЕМ 11)	
St. Paul, MN 5510	7-1289				ON OF CONTRAC NAS1-2000	
CODE	540			108. DATED (SE	<i>Е ПЕМ 13)</i> 4-30-93	
		EM ONLY APPLIES TO	AMENDMENTS OF S			
(c) By separate letter or telegram which ind THE PLACE DESIGNATED FOR THE REC virture of this amendment you desire to cha to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION	EIPT OF OFFE nge an offer aire is received prior DATA (If R	RS PRIOR TO THE HOUP	R AND DATE SPECIFIED to may be made by teleg	MAY RESULT IN RE	JECTION OF YOU	JR OFFER. If by
Deobligate: \$19,220 See Page	2				<u></u>	
	13. THIS ITE	MAPPLIES ONLY TO MO	DIFICATIONS OF CONTI	ACTS/ORDERS.		
<ul> <li>A. THIS CHANGE ORDER IS ISSUE IN ITEM 10A.</li> <li>B. THE ABOVE NUMBERED CONTR date, stc) SET FORTH IN ITEM 14.</li> </ul>	ACT/ORDER IS		THE ADMINISTRATIVE			
C. THIS SUPPLEMENTAL AGREEM Mutual Agreement	ENT IS ENTER	ED INTO PURSUANT TO	AUTHORITY OF:	<u> </u>	<u> </u>	
D. OTHER (Specify type of modifica	tion and authori	(Y)		<u> </u>	<u></u>	
	w. [X]	is required to sign this d	ocument and return 3	copies 10 the issue	ng office.	····
14. DESCRIPTION OF AMENDMENT/MC SUBJECT: Contract NAS1-20 Systems	DIFICATION (	Organized by UCF section	heedings, including solici	bilon/contract subject	metter where leas	
The purpose of this modification Contract FundingTask Assig	on is to deo nments (La	bligate funding. A RC 52.232-111) (J	.ccordingly, the Co UN 1991) Paragra	phract Schedule phs A and B are	is changed a deleted and	is follows: E restated as
follows:						
Except as provided herein, all terms and co	onations of the c	socument referenced in ite	m 3A or 10A, as meretolor	e changed, remains ui	ichanged and in t	il force and effect
SA, NAME AND TITLE OF SIGNER (Type			16A. NAME AND TITL Charlotte T. Har	E OF CONTRACTING		
58. JONTRACTOR/OFFERCR		15C. DATE SIGNED	168. UNITED STATES	S OF AMERICA	•	6C. DATE SIGNE
Signature of person authorized to sig	<u>n)</u>			in of Contracting Offic		10 mm 10 mm 10
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE NASA - Langley Overprint (DEC 1986)		2	0-105		STANDARD FO Prescribed by G FAR (48 CFR) 5	SA

- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$1,027,338. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B An additional amount of \$49,642 is obligated under this contract for the payment of fee.
- NOTE: The new amount reflects a decrease of \$18,322 from \$1,045,660 to \$1,027,338 for payment of cost and a decrease of \$898 from \$50,540 to \$49,642 for payment of fee.

#### ************

# CONTRACT SUMMARY

Thru	Mod 19	<u>Mod_20</u>	<u>Total</u> –
	80,000 hrs.	0	80,000 hrs.
	\$5,787,900	0	\$5,787,900
	\$ 285,400	0	\$ 285,400

### FUNDING SUMMARY

Present Funding

Decreased by this Mod

Revised Amount

\$1,096,200

(-\$19,220)

\$1,076,980

# ACCOUNTING SUMMARY

Purchase Request	<u>J/O</u>	Amount Deobligated
GGCC.1018	R14459	(-\$10,743)
DCB.2471	R18309	( -1.811)
GGCC.1013	R14459	( -6,666)

NAS1-20001 Modification No. 20 Page 2 of 2

2. AMENUMENT, MODIFICATION NO. 19	3. EFFECT	TIVE DATE 4	REQUISITION/PURCHASE	REQ. NO.	5. PRIXI	ECT NO. (II app
6. ISSUED BY	CODE		ADMINISTERED BY (If our	ner than Item 6)	cot	ρε
National Aeronautics an Langley Research Cente Hampton, VA 23681-00	r	nistration				
8. NAME AND ADDRESS OF CONTR	ACTOR (No., sue	el, county, State and Zi	P Code) (V)	9A. AMENDMENT		ATION NO.
Aero Systems Er 358 E. Fillmore . St. Paul, MN 55	Avenue			98. DATED (SE	on of cont NAS1-2(	0001
CODE	FACI			10B. DATED (SE	4-30-9	93
			TO AMENDMENTS OF S	DLICITATIONS		
					······	
(/) A. THIS CHANGE ORDER IS ISS IN ITEM 10A. B. THE ABOVE NUMBERED COM	UED PURSUANT T	TO :(Specify Authority) MODIFIED TO REFLE	CT THE ADMINISTRATIVE C	H IN ITEM 14 ARE N		
IN ITEM 10A. B. THE ABOVE NUMBERED CON date, atc) SET FORTH IN ITEM C. THIS SUPPLEMENTAL AGRE	IUED PURSUANT 1 ITPACT/ORDER IS 14. PURSUANT TO	TO :(Specify Authority) MODIFIED TO REFLE THE AUTHORITY OF	THE CHANGES SET FORT CT THE ADMINISTRATIVE C FAR 43.103(b).	H IN ITEM 14 ARE N		
B. THE ABOVE NUMBERED CON date, atc) SET FORTH IN ITEM	IUED PURSUANT T ITRACT/ORDER IS 14. PURSUANT TO EMENT IS ENTERE	TO :(Specify Authority) MODIFIED TO REFLE THE AUTHORITY OF ED INTO PURSUANT T	THE CHANGES SET FORT CT THE ADMINISTRATIVE C FAR 43.103(b).	H IN ITEM 14 ARE N		
IN ITEM 10A. B. THE ABOVE NUMBERED CON date. atc) SET FORTH IN ITEM ✓ C. THIS SUPPLEMENTAL AGRE Mutual Agreement	IUED PURSUANT T ITRACT/ORDER IS 14. PURSUANT TO EMENT IS ENTERE	TO :(Specify Authority) MODIFIED TO REFLE D THE AUTHORITY OF ED INTO PURSUANT T	THE CHANGES SET FORT CT THE ADMINISTRATIVE C FAR 43.103(b).	H IN ITEM 14 ARE N	changes in pa	
IN ITEM 10A. B. THE ABOVE NUMBERED CON date, etc) SET FORTH IN ITEM ✓ C. THIS SUPPLEMENTAL AGRE Mutual Agreement D. OTHER (Specify type of mod	INED PURSUANT T ITRACT/ORDER IS 14. PURSUANT TO EMENT IS ENTERE fication and authorit is not.	IO :(Specify Authority) MODIFIED TO REFLE D THE AUTHORITY OF ED INTO PURSUANT T is required to sign thi Organized by UCF sec: hearing Design, I bligate funding.	THE CHANGES SET FORT CT THE ADMINISTRATIVE C FAR 43.103(b). O AUTHORITY OF: s document and return toon neadings, including solicita Development, Installa Accordingly, the Cor	HIN ITEM 14 ARE N HANGES (such as copies to the issuir tion and Testin htract Schedule	changes in pa ng office. matter where to g of Facili is changed	ying office, appro- easible) ty Automatic d as follows:
<ul> <li>IN ITEM 10A.</li> <li>B. THE ABOVE NUMBERED CON date, etc) SET FORTH IN ITEM</li> <li>✓ C. THIS SUPPLEMENTAL AGRE Mutual Agreement</li> <li>D. OTHER (Specify type of mod</li> <li>E. IMPORTANT: Contractor</li> <li>14. DESCRIPTION OF AMENDMENT/ SUBJECT: Contract NAS1 Systems</li> <li>The purpose of this modific: Contract FundingTask Assi follows:</li> <li>Except as provided herein, all terms and</li> </ul>	INED PURSUANT T ITRACT/ORDER IS 14. PURSUANT TO EMENT IS ENTERE fication and authorit is not. X MCDIFICATION ( -20001; Engin ation is to deo signments (La)	IO :(Specify Authority) MODIFIED TO REFLE D THE AUTHORITY OF ED INTO PURSUANT T is required to sign thi Organized by UCF sect hearing Design, I bligate funding. RC 52.232-111)	THE CHANGES SET FORT CT THE ADMINISTRATIVE OF FAR 43.103(b). TO AUTHORITY OF: a document and return toon neadings, including solicitation Development, Installation Accordingly, the Cont (JUN 1991) Paragrap	HIN ITEM 14 ARE N HANGES (such as copies to the ssuir tionvcontract subject tion and Testin htract Schedule hs A and B are	changes in pa	ying office, appro easible) ty Automati d as follows: nd restated a n full force and efficiency
<ul> <li>IN ITEM 10A.</li> <li>B. THE ABOVE NUMBERED CON date, atc) SET FORTH IN ITEM</li> <li>✓ C. THIS SUPPLEMENTAL AGRE Mutual Agreement</li> <li>D. OTHER (Specify type of mod</li> <li>E. IMPORTANT: Contractor</li> <li>14. DESCRIPTION OF AMENDMENT/ SUBJECT: Contract NAS1 Systems</li> <li>The purpose of this modific Contract FundingTask Assi follows:</li> </ul>	INED PURSUANT T ITRACT/ORDER IS 14. PURSUANT TO EMENT IS ENTERE fication and authorit is not. X MCDIFICATION ( -20001; Engin ation is to deo signments (La)	IO :(Specify Authority) MODIFIED TO REFLE D THE AUTHORITY OF ED INTO PURSUANT T is required to sign thi Organized by UCF sect hearing Design, I bligate funding. RC 52.232-111)	THE CHANGES SET FORT CT THE ADMINISTRATIVE OF FAR 43.103(b). TO AUTHORITY OF: s document and return ton neadings, including solicitation Development, Installation Accordingly, the Cort (JUN 1991) Paragrap	HIN TTEM 14 ARE N HANGES (such as copies to the ssuir tionvcontract subject tion and Testin htract Schedule hs A and B are changed, remains an CF CONTRACTING	changes in pa	ying office, appro- basible) ty Automatic d as follows: ad restated as
<ul> <li>IN ITEM 10A.</li> <li>B. THE ABOVE NUMBERED CON date, etc) SET FORTH IN ITEM</li> <li>✓ C. THIS SUPPLEMENTAL AGRE Mutual Agreement</li> <li>D. OTHER (Specify type of mod</li> <li>E. IMPORTANT: Contractor</li> <li>14. DESCRIPTION OF AMENDMENT/ SUBJECT: Contract NAS1 Systems</li> <li>The purpose of this modific: Contract FundingTask Assi follows:</li> <li>Except as provided herein, all terms and</li> </ul>	INED PURSUANT T ITRACT/ORDER IS 14. PURSUANT TO EMENT IS ENTERE fication and authorit is not. X MCDIFICATION (1 -20001; Engin ation is to deo tignments (La)	IO :(Specify Authority) MODIFIED TO REFLE D THE AUTHORITY OF ED INTO PURSUANT T is required to sign thi Organized by UCF sect hearing Design, I bligate funding. RC 52.232-111)	THE CHANGES SET FORT CT THE ADMINISTRATIVE C FAR 43.103(b). O AUTHORITY OF: s document and return ton neadings, including solicita Development, Installa Accordingly, the Cott (JUN 1991) Paragrap tem 3A or 10A, as hereiolore 16A, NAME AND TITLE Charlotte T, Hard	HIN ITEM 14 ARE N HANGES (such as copies to the issuin tion and Testin htract Schedule hs A and B are changed, remains an OF CONTRACTING	changes in pa	ying office, approp leasible) ty Automatic d as follows: nd restated as n full force and eff

NASA	د.)	ingley	Overprint	(DEC	1986

- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$1,045,660. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$50,540 is obligated under this contract for the payment of fee.
- NOTE: The new amount reflects a decrease of \$76,263 from \$1,121,923 to \$1,045,660 for payment of cost and a decrease of \$3,737 from \$54,277 to \$50,540 for payment of fee.

# CONTRACT SUMMARY

Thru	<u>Mod 18</u>	<u>Mod 19</u>	<u>Total</u>
Est. Cost:	80,000 hrs.	0	80.000 hrs.
	\$5,787,900	0	\$5.787,900
	\$ 285,400	0	\$ 285,400

### FUNDING SUMMARY

Present FundingDecreased by this ModRevised Amount\$1,176,200\$80,000\$1,096,200

NAS1-20001 Modification No. 19 Page 2 of 2

AMENDMENT OF SOLIC		TION OF CONTR		1 0 000 1000 1000 0 1000 0 1000
2. Amenomentamodification no. 18	3. EFFECTIVE DATE 09/22/1994	4, REQUISITION/PUP	RCHASE REQ. NO.	5. PROJECT NO. (II septicacie)
S. ISSUED BY		7. ADMINISTERED B	Y (If other than item :	;) ೧೦೧೯
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001				
3. NAME AND ADDRESS OF CONTRAC	TCR (No., street, county, State .	and ZIP Coce)	(√) 94. AMEN	EMENT OF SOLICITATION NO.
Aero Systems Engi 358 E. Fillmore Av St. Paul, MN 5510	renue			D (SEE ITEM 11) IFICATION OF CONTRACT/ORDER NO. NAS 1-20001
CCOE	FACILITY CODE		108.0416	о ( <i>SEE ПЕМ '3)</i> 4-30-93
	11. THIS ITEM ONLY APP	UES TO AMENDMEN	IS OF SOLICITATIO	NS .
THE PLACE DESIGNATED FOR THE RE	cudes a reference to the solicitate CEIPT OF OFFERS PRIOR TO T ange an offer already submitted, a is received onor to the opening r IN DATA (If Required)	on and amendment numbe HE HOUR AND DATE SP such change may be made	TS. FAILURE OF YOU	Idment on each copy of the offer submitted; or R ACKNOWLEDGEMENT TO BE RECEIVED T IN REJECTION OF YOUR OFFER. If by provided each telegram or letter makes referen
FR. DSR.5237, JO: R17125	13. THIS ITEM APPLIES CNL			
IN ITEM 10A.	RACT/ORDER IS MODIFIED TO		<u></u>	4 ARE MADE IN THE CONTRACT/CRDER N (such as changes in paying office, seprocriace
C. THIS SUPPLEMENTAL AGREE	MENT IS ENTERED INTO PURSI	UANT TO AUTHORITY CI	Ŧ:	
D. OTHER (Specify type of modified	cation and authority)			
	s not , is required to	sign this document and re	tum copies to	the issuing chice.
Systems The purpose of this modifica Accordingly, the Contract So	20001; Engineering Des tion is to add increment thedule is changed as fo	sign. Development ai funding pursuan Ilows: 3.4 Contra	. Installation and t to the contract :	funding clause of the contract. Assignments (LaRC 52.232-11)
(JUN 1991) Paragraphs A an				
				emains unchanged and in full force and effect PACTING OFFICER (Type or Photo
15A. NAME AND TITLE OF SIGNER (Ty	ipe ar Fant)		T. Hardy	
B. CONTRACTOR OFFERCA	SC. DATE	SIGNED 168. UNIT	D STATES OF AMERIC	CA SC. DATE SIGNE
Signature of serson sufforced of	107)	. —	Signanure Si Cunira	

- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost. exclusive of fee, is \$1.121.923. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$54,137 is obligated under this contract for the payment of fee.
- NOTE: The new amount reflects an increase of \$11,660 from \$1,110,263 to \$1,121,923 for payment of cost and an increase of \$140 from \$54,137 to \$54,277 for payment of fee.

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# CONTRACT SUMMARY

Thru	<u>Mod 17</u>	<u>Mod 18</u>	<u>Total</u>
Est. Cost:	80.000 hrs.	0	80.000 hrs.
	\$5,787.900	0	\$5.787.900
	\$285,400	0	\$ 285.400

-...

# FUNDING SUMMARY

Present Funding	Increased by this Mod	<u>Revised Amount</u>
\$1,164,400	\$11.800	\$1,176.200

NAS1-20001 Modification No. 18 Page 2 of 2

AMENDMENT OF SOLIC		MODIFICATIO		АСТ	DI TOARIL DUT	CODE F	AGE (	OF PAGES
2. AMENDMENT/MODIFICATION NO. 17	3. EFFECT	rive date /25/1994	4. REQUISITION/PURC	HASE	REG. NO.	5. PROJE	CT NO.	(If applicable)
6. ISSUED 8Y	CODE		7. ADMINISTERED BY	(If oth	er than item 6)	c00	e[	
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	pace Admi	nistration						
8. NAME AND ADDRESS OF CONTRACT	OR (No., stre	ret, county, State and .	ZIP Code)	(√)	SA. AMENDMENT	OF SOLICITA	TION NO	).
Aero Systems Engin 358 E. Fillmore Ave St. Paul, MN 55107	nue	2.		 	98. DATED (SEE			DER NO.
				1		NAS1-20		
CODE	FACI				108. DATED (SEE	<i>ітем 13)</i> 4-30-91	3	
	11. THIS IT	EM ONLY APPLIES	TO AMENDMENTS	OF SC	LICITATIONS			
(c) By separate letter or telegram which inclu THE PLACE DESIGNATED FOR THE RECO virture of this amendment you desire to chan to the solicitation and this amendment, and it 12. ACCOUNTING AND APPROPRIATION CCD 1021; TO: C205401; \$17	des a referenc EIPT OF OFFE ge an offer aire s received prior DATA ( <i>II R</i>	te to the solicitation an ERS PRIOR TO THE H eady submitted, such r to the opening hour a menument Required)	HOUR AND DATE SPEC change may be made by ind date specified.	FAILUI IFIED N telegra	RE OF YOUR ACKNO MAY RESULT IN REJE Im or letter, provided e	WLEDGEME CTION OF Y ach telegram	NT TO B	E RECEIVED AT FER. If by
GGD.1031; JO: C295401; \$17:						e)		·
	13. THIS ITE	MAPPLIES ONLY TO	MODIFICATIONS OF C	ONTRA	ACTS/ORDERS,			
(/) A. THIS CHANGE ORDER IS ISSUED IN ITEM 10A.								
B. THE ABOVE NUMBERED CONTRA date, etc) SET FORTH IN ITEM 14, I C. THIS SUPPLEMENTAL AGREEME	PURSUANT TO		F FAR 43.103(b).		HANGES (such as c	nanges in pay		, appropriation
D. OTHER (Specify type of modificat	ion and authori	(Y)			······			
E. IMPORTANT: Contractor X is n	ot,	is required to sign t	his document and return		copies to the issuing	office.		
14. DESCRIPTION OF AMENDMENT/MOD SUBJECT: Contract NAS1-20 Systems								omation
The purpose of this modification Accordingly, the Contract Scher (JUN 1991) Paragraphs A and I	dule is cha	inged as follows	s: B.4 Contract F					
Except as provided herein, all terms and con- SA. NAME AND TITLE OF SIGNER (Type)		socument referenced		TITLE				
58. CONTRACTORIOFFEROR		ISC. DATE SIGNE	D 168. UNITED ST		DF AMERICA		16C. 04	TE SIGNED
(Signature of person authorized to sign	····		BY The	ELT_	D Contracting Office	~;	3	1:5194
NSN 7540-01-152-6070 28EVICUS EDITIONS UNUSABLE	*					STANDARD	FORM 20	(Rev :0-33)

A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$1,110,263. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

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- B. An additional amount of \$54,137 is obligated under this contract for the payment of fee.
- NOTE: The new amount reflects an increase of \$190,658 from \$919,605 to \$1,110,263 for payment of cost and an increase of \$9,342 from \$44,795 to \$54,137 for payment of fee.

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# CONTRACT SUMMARY

Thru	Mod 16	<u>Mod 17</u>	<u>Total</u>
Est. Cost:	80,000 hrs.	0	80,000 hrs.
	\$5,787,900	0	\$5,787,900
	\$ 285,400	0	\$ 285,400

# FUNDING SUMMARY

Present Funding	Increased by this Mod	<u>Revised Amount</u>
\$964,400	\$200,000	\$1,164,400

NAS1-20001 Modification No. 17 Page 2 of 2

AMENDMENT OF SOLIC	( ITATION/MC	DIFICATION O	F CONTRAC	т   4	ITRACTIC	CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 16	J. EFFECTIVE	DATE 1994 4. REC	DUISITICN/PURCHAS	SE REQ. (	NO.	S. PROJE	CT NO. (Il applicable)
6. ISSUED BY	CCOE	7. ADN	AINISTERED BY (I	other that	n Item 6)	coo	e
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	•	stration					
3. NAME AND ADDRESS OF CONTRACT	TOR (No., street, s	county, State and ZIP Co	de) (	√) 9A.	AMENDMEN	T OF SOLICIT,	ATION NO.
Aero Systems Engin 358 E. Fillmore Av St. Paul, MN 5510	enue				DATED (SE		ract/crder no. 2001
0005		× conf		* 1	DATED (SE	е птем 19) 4-30-9	93
CODE		Y CODE	AMENDMENTS OF	SOUCI	TATIONS		·
(a) By completing items 8 and 15, and retur (c) By separate letter or telegram which inc THE PLACE DESIGNATED FOR THE REC virture of this amendment you desire to cha to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION GGD.1029; J.O. C295302; \$12	dudes a reference to CEIPT OF OFFERS ange an offer alread I is received prior to N DATA (If Reg	PRIOR TO THE HOUR y submitted, such chang the opening hour and da uired)	ndment numbers. FA AND DATE SPECIFI Ie may be made by te te specified.	NLURE O ED MAY i legram or	F YOUR ACKI RESULT IN RE latter, provide	VOWLEDGEM JECTION OF d each telegrar	ENT TO BE RECEIVED AT YOUR OFFER, If by
		APPLIES ONLY TO MOD					
(1) A. THIS CHANGE CRDER IS ISSUE IN ITEM 10A. B. THE ABOVE NUMBERED CONTI				<u></u>			CONTRACT/ORDER NO.
C. THIS SUPPLEMENTAL AGREEN							
D. OTHER (Spearly type of modific	ation and authonly)						
E. MPCRTANT: Contractor X is	s not ,	is required to sign this do	cument and return	@	oles to the issu	ung office.	
14. DESCRIPTION OF AMENDMENTAN SUBJECT: Contract NAS1-1 Systems							
The purpose of this modificat Accordingly, the Contract Sci (JUN 1991) Paragraphs A and	hedule is char	iged as follows: I	3.4 Contract Fu	he con nding-	ract fundi Task Assi	ng clause o ignments ()	of the contract. LaRC 52.232-111
Exceptions provided herein, all terms and	conditions of the do	cument referenced in ite	m 3A or 10A, as here:	piore cha	nged, remains	unchanged an	d in full force and effect.
SA, NAME AND TITLE OF SIGNER (7/			15A. NAME AND Sandra S. Ray	TITLE OF			
SB. CONTRACTOR/OFFERCR		SC. DATE SIGNED	168. UNITECIST	é.	Q	Jay	16C. DATE SIGNED
Signature of person authorized to NSN /Subjit-152-4070 PREVIOUS EDITIONS UNUSABLE NASA - Langley Overonnt (DEC 1986)	<u>ugn)</u>	<u>ا</u> د	0-105	natur <del>a sr</del>	Contracting C	STANDA Prescribe	RD FORM 30 , Rev 10-92 d by CSA CFR) 53,243

- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$919,605. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$44,795 is obligated under this contract for the payment of fee.
- NOTE: The new amount reflects an increase of \$166.826 from \$752,779 to \$919,605 for payment of cost and an increase of \$8,174 from \$36,621 to \$44,795 for payment of fee.

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### CONTRACT SUMMARY

Thru	<u>Mod 15</u>	<u>Mod 16</u>	<u>Total</u>
	80,000 hrs.	0	80,000 hrs.
	\$5,787,900	0	\$5,787,900
	\$ 285,400	0	\$ 285,400

# FUNDING SUMMARY

Present Funding	Increased by this Mod	Revised Amount
\$789,400	\$175,000	\$964,400

# NAS1-20001 Modification No. 16 Page 2 of 2

AMENDMENT OF SOLIC	TATION	CDIFICAT		CONTRA	СТ	1. CONTRA	ot io code	PAGE	OP PADES
2. AMENICATION NO. 15	AUG	1 - 1994	A. REOL	4. REQUISITION PURCHASE RED. N.				DIECT NO.	(If apploable)
	000e		7. ADMII	NISTEREO BY	(# othe	r than (tern 4)	Ċ	00e	
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	•	Inlettation							
S. NAME AND ADDRESS OF CONTRACT		nel anualu Shala a	-1 7/8		$\left( \mathbf{v} \right)$		MENT OF SOLIC		~~~~~
		een, oooniy, saare ah		)					<b>U</b> .
Aero Systema Engli		с.				98. DATED	(SEE (TEM 11)		
358 E. Fillmore Av St. Paul, MN 3510									
					1		CATION OF CON NAS1-	20001	IDER NO.
2006	540	LITY CODE				108. OATED	7822 1722 19 4/30	1/94	
		TEM ONLY APPLI	IFS TO AL	INCHENTA	OF BO	LICITATION	9		
b) By separate letter or telegram which ind THE PLACE DEBIGNATED FOR THE REC inture of this amendment you desire to cha to the solidization and this amendment, and	DEIPT OF OPP nge an offer al: Is received prk	ERS PRIOR TO TH ready submitted , su	ië HOUR AN uch change /	D DATE SPEC	IFIED M	AY RESULT I	N REJECTION O	F YOUR O	FFER, It by
z, accounting and appropriation $\sqrt{A}$	NDATA (If	Flequired)							
	13. THIA ITE	EM APPLIES ONLY	TO MODIFI	CATIONS OF C	XONT RA	CTS/ORCERS	1,		
1) A. THIS CHANGE ORDER IS ISSUE	D PURSUANT	TO Copecity Autho	oriy) THE	CHANGES SET	[ PORTH	1 IN ITEM 14 A	ARE MADE IN TH	e contru	KTIORDER NC
B. THE ABOVE NUMBERED CONTR ON MO BET FORTH IN ITEM 14,	URBUANT	is modified to ri to the authorit	EFLECT TH	E ADMINISTRA 0,103(b).	TIVE C	NANGES (AU	ch as changes in	peying offic	x, appropriation
0. THIS SUPPLEMENTAL AGREEM Mutual Agreement	ENT IS ENTER	RED INTO PURSUA	ANT TO AUT	HORITY OF:					
D. OTHER (Apeaty type of modified	tion and autho	(17)							
WPORTANT: Contractor	not. X	le required to sig	gn this docur	nent and return	1_		leading office.		
14. DESCRIPTION OF AMENDMENTING		(Organized by UCF	F 100000 hee	angs, including	solon:	ionaon mact al	tiect matter whe	re legaidie)	
The purpose of this modificati Property and to revise Clause : to the Contract Schedule:									
		(CONTINUE							
Except as provided herein, all terms and o	_	document reference			Contraction of the local division of the loc	the second s	ing unchanged at		
MARS R DINKINS D		ENSTERNOF	Service S	Sandra S. R	ay		n ang Weenvert	א ש שעעון	
62 CHITALCTOACFFERCA		180. DATE 8K	GNED	SB. JOHTED &	TATES	ALLENZA		100,2	CARE BRINED
Horeber of person surgers to H	202	7/29/9			Sec. 1	Rist die look		2 [ 3/	11412
HARA - Langley Overprint (DEC 1906)			20-10	•			Presente	URD PORM 1 44 54 0.8A CFR1 63.343	
		FIL	EUC	)F7					

1. In the clause 18-52.245-73, the date "(March 1989)" is revised to read "(July 1994)", and paragraphs (b) and (c) are revised to read as follows:

(b) If administration of this contract has been delegated to the Department of Defense, the original of NASA Form 1018 shall be submitted to the NASA installation Financial Management Officer and three copies shall be sent concurrently through the DOD Property Administrator to the NASA office identified below. If the contract is administered by NASA, the original of NASA Form 1018 shall be submitted to the installation Financial Management Officer and three copies shall be sent concurrently to the following NASA office: NASA Langley Research Center, Attn: Industrial Property Office, M/S 377, Hampton, VA 23861-0001.

(c) The annual reporting shall be from October 1 of each year to September 30 of the following year. The report shall be submitted by October 31.

2. Clause H.10 entitled Government-Furnished Items is revised to read as follows:

# "Government-Furnished Material

For the performance of this contract, the Government will furnish to the Contractor material as specified in task assignments"

NOTE: The change in Item No. 2 above is the result of restrictions being implemented in providing facilities to contractors. "Facilities," include real property and plant equipment. "Material" as stated above does not fall into this category. Plant equipment includes general purpose, off-the-shelf items of equipment that a reasonable Contractor would have on hand in order to provide the service or perform the contract work.

3. All other terms and conditions remain unchanged.

A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$752,779. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.

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- B. An additional amount of \$36,621 is obligated under this contract for the payment of fee.
- NOTE: The new amount reflects an increase of \$40,038 from \$712,741 to \$752,779 for payment of cost and an increase of \$1,962 from \$34,659 to \$36,621 for payment of fee.

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# CONTRACT SUMMARY

Thru Mod 13		<u>Mod 14</u>	<u>Total</u>
	80,000 hrs.	0	80,000 hrs.
	\$5,787,900	0	\$5,787,900
	\$ 285,400	0	\$ 285,400

# FUNDING SUMMARY

Present Funding	Increased by this Mod	Revised Amount
\$747,400	\$42,000	\$789,400
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NAS1-20001 Modification No. 14 Page 2 of 2

AMENDMENT OF SOLIC	ITATION/MODIFICAT		CONTRACT		CODE PA	CE OF PAGES	
2. AMENDMENT/MODIFICATION NO. 13	3. EFFECTIVE DATE	4. REQUIS	4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT				
6. ISSUED BY	CODE	7. ADMINI	STERED BY (If on	ner than item 6)	CODE		
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	pace Administration						
8. NAME AND ADDRESS OF CONTRACT	OR (No., street, county, State a	Ind ZIP Code)	()	9A. AMENDMENT		ION NO.	
Aero Systems Engir 358 E. Fillmore Ave	•						
St. Paul, MN 55107				9B. DATED (SEE	11EM 11)		
					NAS1-200	01	
CODE	FACILITY CODE		<b>`</b>	10B. DATED (SEE	<i>ITEM 13)</i> 4-30-93		
	11. THIS ITEM ONLY APPL			1		<u></u>	
virture of this amendment you desire to char to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION PR: DSA.3160 Deobligate: \$12 (/) A. THIS CHANGE ORDER IS ISSUE	s received prior to the opening ho DATA ( <i>II Required</i> ) 2,550 JO: R14293/PR: I 13. THIS ITEM APPLIES ONLY	DSA .3166	ecified. \$9,350 (Com ATIONS OF CONTR	plete) JO: R142	93		
B. THE ABOVE NUMBERED CONTR date, etc) SET FORTH IN ITEM 14. C. THIS SUPPLEMENTAL AGREEMI	PURSUANT TO THE AUTHORIT	TY OF FAR 43.	103(b).	CHANGES (such as c	hanges in payir	ng office, appropriation	
X MUTUAL AGREEMENT							
D. OTHER (Specify type of modifica	tion and authority)						
E. IMPORTANT: Contractor is r	tot , 🔀 is required to si	ign this docume	ent and return 3	_ copies to the issuing	) office.		
14. DESCRIPTION OF AMENDMENT/MO SUBJECT: Contract NAS1-2 Systems			• •	•			
The purpose of this modification (APR 1984)as modified by N follows: B.4 Contract Funding restated as: Except as provided herein, all terms and co	ASA FAR Supplement Task Assignments (L	18-32.705 aRC 52.23	-2. According 2-111)(JUN-1	ly, the Contract 991) Paragraphs	Schedule is A and B ar	s changed as e deleted and	
5A. NAME AND TITLE OF SIGNER (Type	or Pnnt)	164		E OF CONTRACTING			
158. CONTRACTORICFFEROR	15C. DATE SH		. UNITED STATES	QF AMERICA		16C. DATE SIGNED	
// (Signature of person authorized to sig NSN /540-01-152-8070 #REVIOUS EDITIONS UNUSABLE NASA - Langley Overprint (DEC 1986)	n)	30-105	i (Signan)	re of Cantracting Office	TANDARD F Prescribed by FAR (48 CFR)	GSA	

- A In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$712,741. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$34,659 is obligated under this contract for the payment of fee.
- NOTE: The new amount reflects a decrease of \$2,614 from \$715,355 to \$712,741 for payment of cost and a decrease of \$586 from \$35,245 to \$34,659 for payment of fee.

# CONTRACT SUMMARY

	<u>Thru Mod 12</u>	<u>Mod 13</u>	Total
Hours:	80,000hrs.	0	80,000hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

na na sa	FUNDING SUMMARY	an a
<u>Present Funding</u>	<u>Decreased by this Mod</u>	<u>Revised Amount</u>
\$750,600	(-\$3,200)	\$747,400

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AMENDMENT OF SOLIC	ITATION/MODIFICAT	ION OF CONTRA	CT	1. CONTRACT ID	CODE	PAGE 1	OF PAGES
2. AMENDMENT/MODIFICATION NO. 12	3. EEFECTIVE DATE JUN 0 7 1994	4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT N					(II applicable
6. ISSUED BY	CODE	7. ADMINISTERED BY	(if oth	er than ltem 6)	c	006	
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001							M
8. NAME AND ADDRESS OF CONTRAC	TOR (No., street, county, State ar	nd ZIP Code)	(1)	9A. AMENDMENT			
Aero Systems Engi	neering. Inc.						
358 E. Fillmore Av St. Paul, MN 5510	е.			98. DATED (SEE	TEM 11)		
			1	10A. MCDIFICATIC	NAS1-	20001	IDER NO.
CODE	FACILITY CODE		+	108. DATED (SEE	<u>тем 13)</u> 4-30	-93	
	11. THIS ITEM ONLY APPLI						
(c) By separate letter or telegram which inc THE PLACE DESIGNATED FOR THE REC virture of this amendment you desire to cha to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION PR: DSA.3160 \$12,550(Comp	CEIPT OF OFFERS PRIOR TO THI nge an offer already submitted, su is received prior to the opening hou N DATA (If Required)	E HOUR AND DATE SPECI ch change may be made by ur and date specified.	FIED N telegra	IAY RESULT IN REJE Im or letter, provided e	ECTION OF each telegr	F YOUR OF	FER. If by
PR: DSA.3160 \$12,550(Comp	····			<u> </u>	4459	<u></u>	
	13. THIS ITEM APPLIES ONLY	TO MODIFICATIONS OF C	ONTRA	CTS/ORDERS,			
<ul> <li>A. THIS CHANGE ORDER IS ISSUE IN ITEM 10A.</li> <li>B. THE ABOVE NUMBERED CONTR date, etc) SET FORTH IN ITEM 14.</li> </ul>	ACT/ORDER IS MODIFIED TO RE	FLECT THE ADMINISTRA					
C. THIS SUPPLEMENTAL AGREEM			·· ·				· · ·
0. OTHER (Specify type of modifica	tion and authority)			t dan menta se ser stransmente se		i	<u> </u>
. IMPCRTANT: Contractor X is i							
		n this document and return		copies to the issuing			
14. DESCRIPTION OF AMENDMENT,MO SUBJECT: Contract NAS1-2 Systems							omation
The purpose of this modificatio (APR 1984)as modified by N follows: B.4 Contract Funding	ASA FAR Supplement	18-32.705-2. Accord	dingl	y, the Contract	Schedul	e is chan	iged as
restated as:	, waa isoigiiiiciiio (Lu						
Except as provided herein, all terms and co	inditions of the document reference	d in Item 9A or 10A, 34 here	tolore o	manged, remains unc	nanged and	t in full force	and effect.
SA. NAME AND TITLE OF SIGNER (Type			TITLE	OF CONTRACTING C			
SB. CONTRACTOR/OFFERCR	15C. DATE SIG	BY / X	/			16C. DA	TE SIGNED
/Signature of person authorized to sig NSN 7540-01+152-8070	<u>n)                                     </u>	30-105	nanne	of Contracting Officer		RD FORM 30	(Rev 10-83)
PREVIOUS EDITIONS UNUSABLE NASA - Langley Overprint (DEC 1986)					Prescriber		

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- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, \$715,355. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$35,245 is obligated under this contract for the payment of fee.
- NOTE: The new amount reflects an increase of \$144,090 from \$571,265 to \$715,355 for payment of cost and an increase of \$7,060 from \$28,185 to \$35,245 for payment of fee.

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# CONTRACT SUMMARY

	Thru Mod 11	<u>Mod 12</u>	<u>Total</u>
Hours:	80.000hrs.	0	80.000hrs.
	\$5,787,900	0	\$5,787,900
	\$ 285,400	0	\$ 285,400

FUNDING SUMMARY

<u>Present Funding</u>	Increased by this Mod	Revised Amount
\$599,450	\$151,150	\$750,600

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AMENDMENT OF SOLIC	<u>(</u>	MODIFICAT		F CONTRA	СТ		CODE	PAGE 1	OF PAGES
2. AMENDMENT/MODIFICATION NO. 11	3. EFFEC	TIVE DATE	4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO.					J. DJECT NO.	I Z Z (If applicable
6. ISSUED BY	CODE		7. ADI	MINISTERED BY	(If oth	er than litern 6)	C	ODE	
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	pace Adm	inistration							
8. NAME AND ADDRESS OF CONTRACT	OR (No., str	eet. county. State an	nd ZIP Co		$\left( \mathbf{} \right)$	9A. AMENDMENT			 ).
Aero Systems Engir 358 E. Fillmore Ave St. Paul, MN 55107	eering, In	•••				9B. DATED (SE			
	-1289					10A. MCDIFICATIO	IN OF CON		DER NO.
						SEL			
CCDE	FAC	LITY CODE			l	108. DATED	<i>е ітем 13</i> ) 4-30	-93	
	11. THIS I	TEM ONLY APPLI	ES TO A	MENDMENTS	OF SO	LICITATIONS			
(c) By separate letter or telegram which inclu THE PLACE DESIGNATED FOR THE REC. virture of this amendment you desire to char to the solicitation and this amendment, and i 12. ACCOUNTING AND APPROPRIATION	EIPT OF OFF ge an offer all received price	ERS PRIOR TO THE ready submitted , suc	E HOUR A ch change	ND DATE SPECIF	IED M	AY RESULT IN REJ	ECTION OF	F YOUR OF	FER. If by
PR: DCB.2474 \$15,750 (Com	plete) JO	R18309		·····					
	13. THIS ITE	MAPPLIES ONLY 1		FICATIONS OF CO	NTRA	CTS/CRDERS,			
<ul> <li>(1) A. THIS CHANGE ORDER IS ISSUED IN ITEM 10A.</li> <li>▶ THE ABOVE NUMBERED CONTRA date, a(c) SET FORTH IN ITEM 14.</li> </ul>	CT/ORDER I		FLECT T						<u></u>
C. THIS SUPPLEMENTAL AGREEME									
D. OTHER (Specify type of modificati	on and author	л( <b>у</b> )							
E. IMPCRTANT: Contractor X is n	x.	is required to sign	n this doc	ment and return		copies to the issuin	g office.		
14. DESCRIPTION OF AMENDMENT/MOD SUBJECT: Contract NAS1-20 Systems	. –								mation
The purpose of this modificatio (APR 1984)as modified by N.	-								
follows: B.4 Contract Funding	-Task As	signments (Laf	RC 52.	232-111)(JUN	4 199 '	1) Paragraphs	A and B	are dele	ted and
restated as:						<b>`</b>			
Except as provided herein, all terms and con SA, NAME AND TITLE OF SIGNER (Type of		aocument referenced			TILE	OF CONTRACTING			
58. CONTRACTOR/OFFERCR		ISC. DATE SIGN	NED	168. UNITED STA	1 '	<u> </u>	<u></u>	16C_DA	TE SIGNED
(Signature of person authorized to sign	,			/ / / , / (Sib)	nature	of Contracting Office	<u>n</u>	· [ ] ·	<u>d ) 74</u>
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE NASA - Langley Overprint (DEC 1986)			30-10	is í			STANDAR	TO FORM 30 by GSA	(Rev 10-83)

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- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost. exclusive of fee, \$571,265. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$28,185 is obligated under this contract for the payment of fee.
- NOTE: The new amount reflects an increase of \$15,014 from \$556,251 to \$571,265 for payment of cost and an increase of \$736 from \$27,449 to \$28,185 for payment of fee.

# CONTRACT SUMMARY

	<u>Thru Mod 10</u>	<u>Mod 11</u>	<u>Total</u>
Hours:	80,000hrs.	0	80,000hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

FUNDING SUMMARY

Present Funding \$583,700 Increased by this Mod \$15.750

Revised Amount \$599.450

						<del></del>	<u> </u>		GES 		
2. AMENDMENT/MODIFICATION NO.		TIVE DATE	4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (						(If applic	able)	
6. ISSUED BY	CODE		7. ADM	INIST	EREDE	VY (If oth	er than Item 6)	c	:00E		
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	pace Adm	inistration									
8. NAME AND ADDRESS OF CONTRACT	OR (No., str	eet, county, State an	nd ZIP Cod	'e)		(√)	9A. AMENDMENT	OF SOLIC	CITATION NO	D.	
Aero Systems Engir 358 E. Fillmore Ave St. Paul, MN 55107		с.	·				98. DATED (SEE	ПЕМ 11)			
	·					1		NAS1-	20001	DER NO.	
CODE	FAC						10B. DATED	<i>птем 13)</i> 4-3(	)-93		
••••••••••••••••••••••••••••••••••••••	11. THIS I	TEM ONLY APPLI	ES TO A	MEN	OMENT	IS OF SC	DLICITATIONS				
(a) By completing items 8 and 15, and return (c) By separate letter or telegram which incli THE PLACE DESIGNATED FOR THE REC virture of this amendment you desire to char to the solicitation and this amendment, and i	udes a referen EIPT OF OFF lige an offer al s received pric	ce to the solicitation ERS PRIOR TO THI ready submitted, su or to the opening hou	and amen E HOUR A ch change	dmeni ND D/ may l	TE SP	rs. FAILU	VAY RESULT IN REJE		MENT TO B	E RECEIV FER. If by	/ED AT /
12. ACCOUNTING AND APPROPRIATION	DATA (II	Required)						<u> </u>			
	13. THIS ITE	EM APPLIES ONLY		ICATI	ONS CI	CONTR	ACTS/ORDERS,				
(1) A. THIS CHANGE ORDER IS ISSUE IN ITEM 10A. B. THE ABOVE NUMBERED CONTR.											
date, etc) SET FORTH IN ITEM 14.									• • •		~ ·.
C. THIS SUPPLEMENTAL AGREEM	INT IS ENTER	RED INTO PURSUA	NT TO AU	THOP	ITY OF:						
D. OTHER (Specify type of modifical	ion and autho	n <b>ry</b> )									
E. IMPORTANT: Contractor X is r	ot ,	is required to sig	n this doc.	ment	and retu	ım	cooles to the issuing	affice.			
14. DESCRIPTION OF AMENDMENT/MO SUBJECT: Contract NAS1-2 Systems	0001; Eng	ineering Desig	m, Deve	elopi	nent,	Installa	tion and Testing	g of Fac	ility Auto		1
1. The purpose of this modific Modification No. 8. Therefore	, the follow	wing change is	made ti	o the	cont	ract:					~
Except as provided herein, all terms and constant states and constant states and TITLE OF SIGNER (Type		document reference	Ī	:6A.		NOITITLE					<u></u>
SB. CONTRACTOR/OFFERCR		SC. DATE SIG		:68.			USLER CEAMERICA		16C. 0	TE SIGN	εD
											÷.,
Signature of person authorized to sig				87	<u> </u>	Sknanir	ol Contracting Citice		- 5-2	3-4	

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Page 2

and a second 
The purchase request number "GGCC.1010" set forth in block 12 of Modification No. 8 is corrected to read "GGCC.1016". (Note: The amount and J/O remain as stated.

2. All other terms and conditions remain unchanged.

# CONTRACT SUMMARY

	Thru Mod 9	<u>Mod 10</u>	<u>Total</u>
Hours:	80,000hrs.	0	80,000hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

AMENDMENT OF SOLICIT		DIFICATION C	F CONTRAC	<b>7</b> (		COE P	AGE C	PAGES
2. AN ENDMENT/MODIFICATION NO. 9	3. EFFECTIVE O		4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicat				(If applicable)	
5. ISSUED BY C		7. ADI	MINISTERED BY	if othe	r than Item 6)	CODE		
National Aeronautics and Spa Langley Research Center	ace Administr	ration						
Hampton, VA 23681-0001					·····			
8. NAME AND ADDRESS OF CONTRACTO		unty, State and ZIP Co	nde)	(1)	9A. AMENDMENT C	F SOLICITA	TICN NO	),
Aero Systems Engine	-					····		
358 E. Fillmore Ave. St. Paul, MN 55107-					98. DATED (SEE )	TEM 11)		
St. Paul, Min 55107-	1289		ļ					
				✓		NAS1-20	001	DER NO.
CODE	FACILITY	CODE		•	10B. DATED (SEE )	тем 13) 4-30-91	3	
		ONLY APPLIES TO	AMENDMENTS O	F SO	LICITATIONS			
The above number 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 amendement ; (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 virture 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 OF PR: GGCC.1013 \$12,600(Com		^{ed)} 14459						
	13. THIS ITEM AP	PLIES ONLY TO MOD	FICATIONS OF CO	NTRA	CTS/CRDERS,			
(/) A. THIS CHANGE ORDER IS ISSUED IN ITEM 10A.								
date, atc) SET FORTH IN ITEM 14, P	PURSUANT TO TH	E AUTHORITY OF FAI	R 43.103(b).				,	
C. THIS SUPPLEMENTAL AGREEME	NT IS ENTERED IN	ITO PURSUANT TO A	UTHORITY OF:					
D. OTHER (Specify type of modification	on and authority)				<u></u>			
E. IMPCRTANT: Contractor X is no	ot. 🔄 is	required to sign this do	cument and return		copies to the issuing	office.		
14. DESCRIPTION OF AMENDMENT/MOD SUBJECT: Contract NAS1-20 Systems								omation
The purpose of this modificatio	n is to provide	e incremental fu	nding pursuant	t to t	he clause 52.233	2-22 Limi	itation	of Funds
1984)as modified by NASA F	AR Suppleme	ent 18-32.705-2.	Accordingly.	the	Contract Schedu	le is char	nged as	s follows:
B.4 Contract FundingTask As								
Except as provided herein, all terms and con	nations of the docu			-	•			
15A. NAME AND TITLE OF SIGNER (Type or Pnni) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Pnni) RICHARD C. SHISLER								
SO CONTRACTOR/CFFERCR		SC DATE SIGNED	58. UNITED ST				65-0	ATE SIGNED
/Signature of person authorized to sign	11	····-	Sic	i Inalur	e at Contracting Officer		12-1	0-11-
PREVIOUS 2011 (22:00) PREVIOUS 2011 (CNS UNUSABLE NASA - Langley Overonnt (DEC 1986)		x	1-:05 /		~	STANDARE Prescribed 5 FAR (48 CF	oy GSA	

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- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$556,251. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$27,449 is obligated under this contract for the payment of fee.
- NOTE: The new amount reflects an increase of \$12,011 from \$544,240 to \$556,251 for payment of cost and an increase of \$589 from \$26,860 to \$27,449 for payment of fee.

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### CONTRACT SUMMARY

<u>Thru Mod 8</u> 80,000hrs. \$5,787,900	<u>Mod 9</u> 0 0	<u>Total</u> 80,000hrs. \$5,787,900 \$ 285,400
\$ 285,400	0	

#### FUNDING SUMMARY

Present Funding \$571,100 Increased by this Mod \$12,600 Revised Amount \$583.700

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AMENDMENT OF SOLIC		FICATION C	F CONTRACT	r ⁴	CONTRACT ID CO	20E F	PAGE OF	PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DAT	E 4. RE	QUISITION/PURCHAS	SE REO	2. NO.	5. PROJE	CT NO. (	lf applicable)
6. ISSUED BY	CODE	7. AD	MINISTERED BY (I	other	than Item 6)	CODE		
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	pace Administratio	on						
8. NAME AND ADDRESS OF CONTRACT	OR (No., street, county	, State and ZIP Co	de) (	(1)	9A. AMENDMENT O	F SOLICITAT	ION NO.	
Aero Systems Engir	eering. Inc.							
358 E. Fillmore Ave	-			F	98. DATED (SEE /	TEM 11)		
St. Paul, MN 55107								
						05 00150		
				✓	/866 I	NAS1-20 TEM 13)		H NO.
CODE	FACILITY CO	DE			10B. DATED	4-30-9	3	
	11. THIS ITEM ON	LY APPLIES TO	AMENDMENTS OF	SOLI	CITATIONS			
(a) By completing Items 8 and 15, and return (c) By separate letter or telegram which inclu THE PLACE DESIGNATED FOR THE REC this amendment you desire to change an offi solicitation and this amendment, and is recei	Ides a reference to the so EIPT OF OFFERS PRIOF er already submitted, suc wed prior to the opening h	Nicitation and amene R TO THE HOUR AI In change may be m	ND DATE SPECIFIED hade by telegram or let	URE O	F YOUR ACKNOWLE RESULT IN REJECTION	DGEMENT	to be rec R offer. 1	EIVED AT
12. ACCOUNTING AND APPROPRIATION PR: DCB.2471 \$12,600(Com		9 and PR: GG	CC.1010 \$10,50	00(C	omplete) JO: R	14459		
			ER NO. AS DESCRIB					
(✔) A. THIS CHANGE ORDER IS ISSUED IN ITEM 10A.	DPURSUANT TO : <i>(Spe</i>	cily Authority) T	HE CHANGES SET F	ORTH	IN ITEM 14 ARE MAD	DE IN THE C	ONTRACT/	ORDER NO.
B. THE ABOVE NUMBERED CONTRA etc) SET FORTH IN ITEM 1	ACT/ORDER IS MODIFIE 4, PURSUANT TO THE A			CHAN	GES (such as change	s in paying o	ffice, approp	oriat ion date,
C. THIS SUPPLEMENTAL AGREEME	ENT IS ENTERED INTO F	PURSUANT TO AU	THORITY OF:					
D. OTHER (Specify type of modifica	tion and authority)							<u> </u>
E. IMPORTANT: Contractor X is n	ot , 📄 is requi	red to sign this docu	ment and return	co	pies to the issuing offic	:e.		
14. DESCRIPTION OF AMENDMENT/MOD SUBJECT: Contract NAS1-20 Systems	·	-	eadings, including solie lopment, Install					ion
The purpose of this modification 1984)as modified by NASA F B.4 Contract FundingTask As	FAR Supplement 1	18-32.705-2.	Accordingly, the	: Con	tract Schedule	is change	d as foll	ows:
follows:	Signments (Lare	, Jana Ja-111)(		•51 ap				
Except as provided herein, all terms and co	naitions of the document :	referenced in Item 9	A or 10A, as heretelor	e chan	ged, remains unchang	ed and in ful	force and (	eifect.
15A. NAME AND TITLE OF SIGNER (Type	a or Pnnt)		16A. NAME AND TO RICHARD C.		F CONTRACTING OF	FICER (Ty	pe or Pnnt)	
SB. CONTRACTOR/OFFEROR	15C.	DATE SIGNED	16B. UN TED STAT	IE S OF	AMERICA		16C DAT	E SIGNED
(Signature of person authorized to signature of person authorized to signature of signature of signature of the signature of	n)			alure	at Social Cling Officer)		<u> </u>	
PREVIOUS EDITIONS UNUSABLE		30	-105			STANDARD	POHM 30	(Rev 10-33)

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- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$544,240. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$26,860 is obligated under this contract for the payment of fee.
- NOTE: The new amounts reflect an increase of \$22,021 from \$522,219 to \$544,240 for payment of cost and an increase of \$1,079 from \$25,781 to \$26,860 for payment of fee.

## CONTRACT SUMMARY

	Thru Mod 7	<u>Mod 8</u>	<u>Total</u>
Hours:	80,000hrs.	0	80,000hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

Present Funding	Increased by this Mod	<u>Revised Amount</u>
\$548,000	\$23,100	\$571,100

	(			CASE FI	i G	Cap;
AMENDMENT OF SOLIC	CITATION/MODIFICAT	TION OF CONTRAC	T	. CONTRACT ID C	COE	PAGE OF PAGES
. AMENDMENT MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHA	SE RE	Q. NO.	5. PR	QJECT NO. (If applicable)
SSUED BY	CODE	7. ADMINISTERED BY (	ll other	than liem ő)	cc	DE
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001		•				
3. NAME AND ADDRESS OF CONTRACT	TOR (No., street, county, State au	nd ZIP Code)	(1)	9A. AMENDMENT C		
Aero Systems Engi 358 E. Fillmore Av	neering, Inc.					•
St. Paul, MN 5510				98. DATED (SEE	ITEM 11)	
			1		NAS1	
CODE	FACILITY CODE			10B. DATED (SEE	ітем 13) 4-31	0-93
	11. THIS ITEM ONLY APP	LIES TO AMENDMENTS O	F SOL	ICITATIONS		
THE PLACE DESIGNATED FOR THE REC this amendment you desire to change an of solicitation and this amendment, and is reco 2. ACCOUNTING AND APPROPRIATION	Ifer already submitted , such change eved prior to the opening hour and (	e may be made by telegram or !	etter, p	rovided each telegram	or letter	makes reference to the
N/A						
		Y TO MODIFICATIONS OF CO RACT/ORDER NO. AS DESCR				
<ul> <li>A. THIS CHANGE ORDER IS ISSUE</li> <li>IN ITEM 10A.</li> <li>B. THE ABOVE NUMBERED CONTR</li> </ul>						IE CONTRACT/ORDER NO.
	14. PURSUANT TO THE AUTHOR					
C. THIS SUPPLEMENTAL AGREEM	MENT IS ENTERED INTO PURSUA	NT TO AUTHORITY OF:				
✓ D. OTHER (Speally type of modifie Novation Agreement exect	••	FAD 42 12				
		an this document and return - 3				
The purpose of this modification the obligation of full and come the Contractor's name and add Aero Systems Engineer 358 E. Fillmore Ave. St. Paul, MN 55107-128	CCIFICATION (Crganized by UC ion is to recognize the no plete performance of this iress are changed to: ing, Inc.	er section neadings, including si vation of this contract.	olicitatio Aer	ovæntract subject ma o Systems Engi	neerin	g, Inc. has assumed
Except as provided herein, all terms and o		······································				
15A NAME AND TITLE OF SIGNER (TY)	ee or onni entimente Edistremente e	RICHARD (	с. <u>s</u> н	OF CONTRACTING : ISLER	ur- uad	erype or minti
Sa. JONTRACTORICFFERCR		SIGNED BY	y y	OF AMERICA		6C. DATE SIGNED
ISAUNIA O SEISU AURONIAU ISAUNIA SI ASIS PREVIOUS EDITIONS UNUSABLE INAISA - Langiay Ovaronni (DEC 1986)	····	20.005	ing in a luft		STAN	0ARD FORM :0

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FluiDyne Engineering Corporation has provided all documentation required by FAR 42.1204(c). Comments from NASA, Langley Research Center and the Department of the Navy. Southern Division Naval Facilities Engineering Command have been incorporated and made part of the Novation Agreement. The Novation Agreement, executed by the National Aeronautics and Space Administration, Langley Research Center, on behalf of the Federal Government is incorporated and made a part of this modification as Attachment A.

The following are the names and addresses of the installation with contracts subject to the agreement:

NASA, Langley Research Center 126/Grants, Supply, and Construction Contracts Branch Hampton, VA 23681-0001

Department of the Navy, Southern Division Naval Facilities Engineering Command 2155 Eagle Drive P.O. Box 190010 North Charleston, SC 29419-9010

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### CONTRACT SUMMARY

	<u>Thru Mod 6</u>	Mod 7	Total
Hours:	80,000hrs.	0	80,000hrs.
Est. Cost:	\$5,787,900	0	\$5.787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

Attachment

## NOVATION AGREEMENT

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The FLUIDYNE ENGINEERING CORPORATION, a corporation duly organized and existing under the laws of Minnesota with its principal office in Golden Valley, Minnesota; AERO SYSTEMS ENGINEERING, INCORPORATED a corporation duly organized and existing under the laws of Minnesota with its principal office in Saint Paul, Minnesota; and the UNITED STATES OF AMERICA enter into this Agreement as of July 30, 1993.

a) THE PARTIES AGREE TO THE FOLLOWING FACTS:

1

1) The Government, represented by various Contracting Officers of NASA Langley Research Center and the Department of the Navy - Southern Division Naval Facilities Engineering Command has entered into certain contracts with the Transferor, as shown in the attached list marked 'Exhibit A' and incorporated in this Agreement by reference. The term "the contracts," as used in this Agreement, means the above contracts and purchase orders and all other contracts and purchase orders including all modifications, made between the Government and the Transferor before the effective date of this Agreement (whether or not performance and payment have been completed and releases executed if the Government or the Transferor has any remaining rights, duties, or obligations under these contracts and purchase orders). Included in the term "the contracts" are also all modifications made under the terms and conditions of these contracts and purchase orders between the Government and the Transferee, on or after the effective date of this Agreement.

2) As of July 30, 1993 the Transferor has transferred to the Transferee

substantially all of the assets of the Transferor (including the entire portion of the assets involved in performing the contracts) by virtue of an Asset Purchase Agreement as of that date between the Transferor and the Transferee.

3) The Transferee has acquired substantially all of the assets of the Transferor (including the entire portion of the assets involved in performing the contracts) by virtue of the above transfer.

4) The Transferee has assumed all obligations and liabilities of the Transferor under the contracts by virtue of the above transfer.

5) The Transferee is in a position to fully perform all obligations that may exist under the contracts.

6) It is consistent with the Government's interest to recognize the Transferee as the successor party to the contracts.

7) Evidence of the above transfer has been filed with the Government.

b) IN CONSIDERATION OF THESE FACTS, THE PARTIES AGREE THAT BY THIS AGREEMENT:

1) The Transferor confirms the transfer to the Transferee, and waives any claims and rights against the Government that it now has or may have in the future in connection with the contracts.

2) The Transferee agrees to be bound by and to perform each contract in accordance with the conditions contained in the contracts. The Transferee also assumes all obligations and liabilities of, and all claims against, the Transferor under the contracts as if the Transferee were the original party to the contracts.

3) The Transferee ratifies all previous actions taken by the Transferor with respect to the contracts, with the same force and effect as if the action had been taken by the Transferee.

4) The Government recognizes the Transferee as the Transferor's successor in interest in and to the contracts. The Transferee by this Agreement becomes entitled to all rights, titles, and interests of the Transferor in and to the contracts as if the Transferee were the original party to the contracts. Following the effective date of this agreement, the term "Contractor," as used in the contracts, shall refer to the Transferee.

5) Except as expressly provided in this Agreement, nothing in it shall be construed as a waiver of any rights of the Government against the Transferor.

6) All payments and reimbursements previously made by the Government to the Transferor, and all other previous actions taken by the Government under the contracts, shall be considered to have discharged those parts of the Government's obligations under the contracts. All payments and reimbursements made by the Government after the date of this Agreement in the name of or to the Transferor shall have the same force and effect as if made to the Transferee, and shall constitute a complete discharge of the Government's obligations under the contracts, to the extent of the amounts paid or reimbursed.

7) The Transferor and the Transferee agree that the Government is not obligated to pay or reimburse either of them for, or otherwise give effect to, any costs, taxes, or other expenses, or any related increases, directly or indirectly arising out of or resulting from the transfer of this Agreement, other than those that the Government in the absence of this transfer or Agreement would have been obligated to pay or reimburse under the terms of the contracts.

8) The Transferor guarantees payment of all liabilities and the performance of all obligations that the transferee (i) assumes under this Agreement or (ii) may undertake in the future should these contracts be modified under their terms and conditions. The Transferor waives notice of, and consents to, any such future modifications.

9) The contracts shall remain in full force and effect, except as modified by this Agreement. Each party has executed this Agreement as of the day and year first above written

UNITED STATES OF AMERICA By:_ Title:_ nc

ORPORATION E ENGINEERIN By: Title:_

CORPORATE SEAL:

	AERO SYST	TEMS ENGINEERING, INCORPORATED	
By:	Kaon		
Title:	PRESIDENT		

CORPORATE SEAL:

#### Certification

I, Donald L. Perusse	, certify that I am	the Secretary of FLUIDYNE ENGINEERING
CORPORATION; that J.	Leonard Frame	, who signed this Agreement for this
corporation, was then	President	of this corporation; and that this
Agreement was duly signed	for and on behalf of	of this corporation by authority of its governing
		owers. Witness my hand and the seal of this
corporation this day of 1 D	ecember 19	<u>93</u> .
Bý ' AN ALIU	pl	
CORPÓRATE SEAL:		

Certification

I, <u>Mark St. Michel</u>, certify that I am the Secretary of AERO SYSTEMS ENGINEERING, INCORPORATED; that <u>Robert A. Davis</u>, who signed this Agreement for this corporation, was then <u>President & CEO</u> of this corporation; and that this Agreement was duly signed for and on behalf of this corporation by authority of its governing body and within the scope of its corporate powers. Witness my hand and the seal of this corporation this day of <u>1 December</u> 1993.

.By

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CORPORATE SEAL:

## EXHIBIT A

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 NASA Langley Engineering Design, Development, Installation & Testing of Facility Automation System

Contract No. NAS1-20001

t

 Department of Navy Southern Division, Naval Facilities Engineering Command AE Services for Repairs/Modifications to Aircraft Acoustical Enclosures & Jet Engine Test Cell

Contract No. N62467-91-D0873

2. AMENOMENT/MODIFICATION NO.	3. EFFECTI	VE DATE 4. A	EQUISITION/PURCHAS	SE AF	<u> </u>	5. PRO		2 (If applicable)
6			S. PROJECT NO.					
6. ISSUED BY	CODE	7. A	DMINISTERED BY (II	other	than item 6)	COD	E	
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	pace Admini	stration						
8. NAME AND ADDRESS OF CONTRACT	OR (No., stree	t, county, State and ZIP C	cae) (	1	9A. AMENDMENT C	F SCLICIT	ATION NO	).
FluiDyne Engineeri	ng Corporati	on						
5900 Olson Memor	ial Highway				98. DATED (SEE	(TEM 11)		
Minneapolis, MN	55422-4997							
				<b>、</b>		NAS1-2		DER NO.
CCDE	FACIL				108. DATED (SEE	тем із) 4-30-	93	
	11. THIS IT	EM ONLY APPLIES TO	AMENDMENTS OF	SOL	ICITATIONS			
(a) By completing items 8 and 15, and return (c) By separate letter or telegram which ind THE PLACE DESIGNATED FOR THE REC this amendment you desire to change an of solicitation and this amendment, and is rece 12. ACCOUNTING AND APPROPRIATION	udes a reference EIPT OF OFFER fer already submit ived prior to the o	S PRIOR TO THE HOUR ted , such change may be bening hour and date spec	ndment numbers. FAILU AND DATE SPECIFIED made by telegram or lett	JRE ( MAY	OF YOUR ACKNOWL	EDGEMEN ON OF YO	T TO BE R UR OFFEF	ECEIVED AT
PR: DSA.3092 \$11,500(Comp		equired) R17136	- <u></u>					
		MAPPLIES ONLY TO MO						
A. THIS CHANGE ORDER IS ISSUE IN ITEM 10A.	ACT/ORDER IS N		THE CHANGES SET FO					
		O THE AUTHORITY OF F						
C. THIS SUPPLEMENTAL AGREEM	ENT IS ENTERE	) INTO PURSUANT TO A						
D. OTHER (Speaty type of modifica		<u> </u>						
	non and addiority	)						
E. IMPCRTANT: Contractor X Is		s required to sign this do	sument and return	 cc	poies to the issuing offi			
14. DESCRIPTION OF AMENDMENT/MO	DIFICATION (	Organized by UCF section	······				asiclei	
SUBJECT: NASA Contract N Automation System	iAS1-20001;	•	• •		•			
The purpose of this modification		ide incremental fur	iding pursuant to	the	clause 52.232-2	2 Limit	ntion of	Funds (APS
1984)as modified by NASA	F.A.R Supple	nent 18-32.705-2.	Accordingly, the	Co.	ntract Schedule	is chang	ed as fo	
B.4 Contract FundingTask A	ssignments (	LaRC 52.232-111	(JUN 1991) Para	.gruț	ohs A and B are	deleted	and	
restated as follows:								
			A or the person				tul force or	ng arfant
Except as provided herein, all terms and or	induine of the de		and a service of the	له به ما	igen, leinains unchari	القانقات ماتكو	an an ar ar	the full fulless
Except as provided herein, all terms and constant SA. NAME AND TITLE OF SIGNER (Typ					DF-CONTRACTING CI	FICER (	Type or Pr	ni)
		15C. DATE SIGNED	6A. NAME AND TH RICHARDIC. 68. UNITED STAT	SН	SLER	FFICER (		ATE SIGNED

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Page 2

- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$522,219. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$25,781 is obligated under this contract for the payment of fee.
- NOTE: The new amounts reflect an increase of \$10,963 from \$11,256 from \$511,256 to \$522,219 for payment of cost and an increase of \$537 from \$25,244 to \$25,781 for payment of fee.

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#### CONTRACT SUMMARY

	Thru Mod 5	Mod 6	<u>Total</u>
Hours:	80,000hrs.	Ō	80,000hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

Present Funding	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$536,500	\$11,500	\$548,000

AMENDMENT OF SOLIC		IFICATION O	CONTRACT	CONTRACT ID C	COE PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 5	3. EFFECTIVE DAT MAR 0 4	- 1	UISITICN/PURCHAS	E REQ. NO.	5. PROJECT NO. (Il applicable)
6. ISSUED BY	CODE	7. ADN	INISTERED BY (II	oiner (han ltem 6)	
National Aeronautics and S Langley Research Center Hampton, VA 23681-0001	-	on			
8. NAME AND ADDRESS OF CONTRACT	TOR (No., street, coun	ly, State and ZIP Cod	e) (	✓) 9A. AMENDMENT C	OF SOLICITATION NO.
FluiDyne Engineeri	ing Corporation				·
5900 Olson Memor	rial Highway			98. DATED (SEE	ITEM 11)
Minneapolis, MN	55422-4997		ľ		
					N CF CONTRACT/ORDER NO. NAS1-20001
				108. DATED (SEE	ТТЕМ 13) 4-30-93
CCDE			AMENDMENTS OF		
Offers must acknowledge receipt of this am (a) By completing items 8 and 15, and retur (c) By separate letter or telegram which ind THE PLACE DESIGNATED FOR THE REC this amendment you desire to change an of solicitation and this amendment, and is rece	ming copies of the tudes a reference to the CEIPT CF-CFFERS PRIC ffer already submitted, s eived prior to the opening	a amendement ; (b) By solicitation and amend CR TO THE HOUR Al uch change may be m hour and date specif	y acknowledging recei Iment numbers. FAIL ND DATE SPECIFIED ade by telegram or le	of this amendment on ea JRE OF YOUR ACKNOWL MAY RESULT IN REJECT	ch copy of the offer submitted; or EDGEMENT TO BE RECEIVED AT CON CF YOUR OFFER. If by virture of
12. ACCOUNTING AND APPROPRIATION PR: 5673.1091 \$80,000(comp					·
		HE CONTRACT/ORD	FICATIONS OF CON ER NO. AS DESCRIE	ED IN ITEM 14.	
(✔) A. THIS CHANGE ORDER IS ISSUE IN ITEM 10A.					ADE IN THE CONTRACT/ORDER NO.
8. THE ABOVE NUMBERED CONT 910) SET FORTH IN ITEM	RACT/ORDER IS MCDIF	ED TO REFLECT THE AUTHORITY OF FA	E ADMINISTRATIVE R 43.103(b).	CHANGES (such as chang	ges in paying office, appropriat ion date,
C. THIS SUPPLEMENTAL AGREEN	MENT IS ENTERED INTO	D PURSUANT TO AU	THCRITY CF:		
D. OTHER (Speaty type of modifie	cation and authority)				
E. IMPCRTANT: Contractor X is	s not , is rec	aured to sign this doca	ment and return	copies to the issuing o	Ifice.
14. DESCRIPTION OF AMENDMENT.M	COIFICATION (Crgan	ized by UCF section (	neadings, induding so	icitation/contract subject ma	alter where feasible)
SUBJECT: NASA Contract Systems.	NAS1-20001; En	gincering Desig	n. Developmen	t, Installation and T	esting of Facility Automation
The purpose of this modificat 1984)as modified by NASA	tion is to provide i A FAR Supplement	incremental fun t 18-32.705-2.	ding pursuant to Accordingly, th	the clause 52.232- e Contract Schedulo	22 Limitation of Funds (APS e is changed as follows:
B.4 Contract FundingTask .	Assignments (LuF	RC 52.232-111)	(JUN 1991) Par	agraphs A and B ar	e deleted and restated as
follows:				•	
Except as provided herein, all terms and	conditions of the docume	ent referenced in item	3A or ICA, as neveroid	ng manged, remains unone	anged and in full force and effect.
SA. NAME AND TITLE OF SIGNER (7)			RICHARD C	TITLE OF CONTRACTING	CFFICER (Type or Pnnt)
158. JONTRACTOR/OFFERCR		SC. DATE SIGNED	ву		16C. DATE SIGNED
Signature of person sufficiences (Signature of person sufficiences) (Signature of the second Signature of the second second Signature of the second second (Signature of the second second Signature of the second second second Signature of the second second second Signature of the second second second second Signature of the second second second second second second second Signature of the second sec	signi -		0++75 2++75	maiure of Coniracting Office	STANDARD FORM 30 (Rev 19:63) Proscieded by GSA FAR 148 CFR153 243

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- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$511,256. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$25,244 is obligated under this contract for the payment of fee.
- NOTE: The new amounts reflect an increase of \$76,263 from \$434,993 to \$511,256 for payment of cost and an increase of \$3,737 from \$21,507 to \$25,244 for payment of fee.

CONTRACT SUMMARY

	Thur Mod 4	Mod 5	<u>Total</u>
Hours:	80,000hrs.	0	80,000hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	285,400	0	\$ 285,400

Present Funding	Increased by this Mod	Revised Amount
\$456,500	\$80,000	\$536,500

		10DIFICATI	1				
2. AMENDMENT/MODIFICATION NO. 4	JUE	v2011993	4. RECUISITION/PURCH	ASE RE	Q. NO.	S. PROJEC	TNO. (If applicable)
ISSUED BY	CODE		7. ADMINISTERED BY	(If othe	r (han (tem 5)	CCOE	
National Aeronautics and Langley Research Center Hampton, VA 23665-522		ninistration					
3. NAME AND ADDRESS OF CONTRAC	TOR (No., stre	et, county, State and	I ZIP Cada)	(1)	3A. AMENDMENT	OF SOLICITATI	CN NO.
FluiDyne Enginee	ring Corpo	ration	•		r.	. <u></u>	
5900 Olson Memo Minneapolis, MN	-	•			38. DATED (SEE	E.TEM 11)	
					10A. MCDIFICATIC	NAS1-200	
	EAC	LITY CODE	<u>.                                    </u>	-	108. DATED (SEE	<i>тем із)</i> 4-30-93	
			ES TO AMENDMENTS C	FSCUC	ITATIONS	~~~~	<u> </u>
c) By separate letter or telegram which in AT THE PLACE DESIGNATED FOR THE virture of this amendment you desire to ch reference to the solicitation and this amen 12. ACCOUNTING AND APPROPRIATIO	RECEIPT OF OF ange an offer al dment, and is re	FERS PRIOR TO TH ready submitted ; sub	HE HOUR AND DATE SPE ch change may be made b	CIFIED	MAY RESULT IN RE.	JECTION OF YO	IUR OFFER. If by
PR: 2130.2878 \$120,500(Co	•		17128. R17953			<u></u>	
· · · · · · · · · · · · · · · · · · ·			TO MODIFICATIONS OF C CT/ORDER NO. AS DESC				
A. THIS CHANGE ORDER IS ISSUE	D PURSUANT TO	): (Specify Authori	(y) THE CHANGES SET	FORTH	IN ITEM 14 ARE MAD	DE IN THE CON	TRACT/ORDER NO. :
J. THE ABOVE NUMBERED CONTR #C/ SET FORTH IN ITEM 14, PU				IVE CHA	NGES (such as chan	nges in paying of 	fice, appropriat ion da
C. THIS SUPPLEMENTAL AGREEN	MENT IS ENTER	ED INTO PURSUAN	T TO AUTHORITY OF:		4		
D. OTHER (Specify type of modifie	ation and author	jiy)	 		_	<u></u> .	_
E. 'MPCRTANT: Contractor X is n	<b></b> i	s required to sign this	s document and return		ies to the issuing offi	ca.	· · · · · · · · · · · · · · · · · · ·
14. DESCRIPTION OF AMENDMENT/M SUBJECT: NASA Contract Automation Sys The purpose of this modific. Funds (APR 1981) as modi	NAS1-200 stems ation is to p	01; Engineeri provide increm SA FAR Supp	iental funding pur lement 18-32.705-	opmer suant 2. Ac	t. Installation to the clause 5 coordingTy, the	and Testing 2.232-22 L : Contract S	g of Facility imitation of chedule is
changed as follows: B.4 Contract FundingTask	Assignmen	its (LaRC 52.2		,			ted and
changed as follows:				<u> </u>			
changed as follows: B.4 Contract FundingTask restated as follows:	t_conditions of th		ced in item 3A or 10A, 3s		CF CONTRACTING	unchanged and	n 'uil 'orca and attac
changed as follows: B.4 Contract FundingTask restated as follows: Except as provided herein, all terms and	1_2anditions al in ae ar ^a nni)		ced notem 3A or 10A, 35 16A, NAME AN RICHARD		19 ITANGAD, 19 MAINS OF CONTRACTING HISLER	unchanged and OFFICER (Typ	n 'uil 'orca and attac

#### Page 2 of 2

- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$434,993. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$21,507 is obligated under this contract for the payment of fee.

# NOTE: The new amounts reflect an increase of \$114,871 from \$320,122 to \$434,993 for ______ payment of cost and an increase of \$5,629 from \$15,878 to \$21,507 for payment of fee.

#### CONTRACT SUMMARY

-	<u>Thru Mod 3</u>	Mod 4		<u>Total</u>
Hours:	80,000hrs.	· 0	* *	80,000hrs
Est. Cost:	\$5,787,900	- 0 .		\$5,787,900
Fixed Fee:	285,400	0		\$ 285,400

	,	
Present Funding	Increased by this Mod	Revised Amount
\$336,000	\$120,500	\$456,500
	a di seconda	

AMENDMENT OF SOLICITATIO	10DIFICATION	OF CONTRACT		CCE PAGE OF PAGES
3. AMENDMENT MODIFICATION NO. 3. EFFECTION STATES		ECUISITICNPURCHASE	EREC. NO.	5. PROJECT NO. (II applicatie)
SSUED BY CODE		DMINISTERED BY (IF	other than item 5)	CODE
National Aeronautics and Space Adm Langley Research Center Hampton, VA 23665-5225	ninistration			
3. NAME AND ADDRESS OF CONTRACTOR (No., street	et, county, State and ZIP C	, (abc	A JAL AMENDMENT C	OF SOLICITATION NO.
FluiDyne Engineering Corpor	ration			
5900 Olson Memorial Highwa			98. DATED (SEE	(TEM 11)
Minneapolis, MN 55422-4997	•			
		.		OF CONTRACT/ORDER NO.
			✓ └	NAS1-20001
CODE FACIL			108. DATED (SEE)	4-30-93
	TEM ONLY APPLIES TO	AMENDMENTS OF SC		
AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFF inture of this amendment you desire to change an offer aire eference to the solicitation and this amendment, and is rec 2. ACCOUNTING AND APPROPRIATION DATA (If Re-	ady submitted , such chai	nge may be made by tel	legram or letter, provided	CTION OF YOUR OFFER. If by each telegram or letter makes
	едиігеа) D: C293804			
	MAPPLIES ONLY TO MO TIES THE CONTRACT/OR			
✓ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO ITEM 10A.				
S. THE ABOVE NUMBERED CONTRACT/ORDER IS I arc) SET FORTH IN ITEM 14, PURSUANT TO THE			CHANGES (such as change	es in paying office, appropriat ion date
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERE	D INTO PURSUANT TO A	UTHORITY OF:		
0. OTHER (Specify type of modification and authority	y)		<u> </u>	
. IMPCRTANT: Contractor X is not , is	required to sign this docum	ient and return	copies to the issuing office	
	Crganized by UCF section			<u> </u>
SUBJECT: NASA Contract NAS1-2000 Automation Systems	• ,			
The purpose of this modification is to pr Funds (APR 1984)as modified by NAS				
changed as follows:	A I AN Supplement	ne 10-J∠./UJ+≟.	Accordingly, the	
B.4 Contract FundingTask Assignment	s (LaRC 52.232-1	11)(JUN 1991) H	Paragraphs A and	B are deleted and -
restated as follows:				
Except as provided herein, all terms and conditions of the	document referenced in it			
5A. NAME AND TITLE OF SIGNER (Type or Print)		RICHARD C	LE OF CONTRACTING OF	EE:CER - (Type or Pant)
38. CONTRACTOR/OFFERCR	150. DATE SIGNED	168. UNITEDISTATE	ES OF AMERICA	16C. DATE SIGNED
Signature of Serson authorized to sign		Signa	iure of Sontraition Officien	/_ / / / /
NSN 7540-01-0 52-4070 PREVICUS EDITIONS UNUSABLE NASA - Langiby Overdrint (DEC 1986)	2	D-1C5		STANDARD FORM 30 Rev (0-33) Prescribed by 1SA

#### Page 2 of 2

- A. In accordance with the "Limitation of Funds" clause, the amount allotted by the Government to this contract for the purpose of payment of cost, exclusive of fee, is \$320,122. This amount is to cover the Government's obligation for performance of work in accordance with the limitations and completion dates as set forth in task assignments authorized by the Contracting Officer.
- B. An additional amount of \$15,878 is obligated under this contract for the payment of fee.
- NOTE: The new amounts reflect an increase of \$238,338 from \$81,784 to \$320,122 for payment of cost and an increase of \$11,662 from \$4,216 to \$15,878 for payment of fee.

#### CONTRACT SUMMARY

	Thru Mod 2	Mod 3	Total
Hours:	80,000hrs.		80,000hrs
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	285,400	0	\$ 285,400

Present Funding	Increased by this Mod	Revised Amount
\$86,000	\$250,000	\$336,000

AMENDMENT OF SOLICITATI	MODIFICATION	OF CONTRAC		COE PAGE JE PAGES
3. EFFECT 2. JUL	WE CATE	REQUISITION PURCHA	SE REG. NO.	5. PACJESTING. III applicable
National Aeronautics and Space Adi Langley Research Center Hampton, VA 23665-5225		AOMINISTERED BY	(If other than item 5)	CODE
A NAME AND ADDRESS OF CONTRACTOR NO., 100	et, sounty, State and ZIP :	Ccae)	A BAL AMENDMENT D	F SOLICITATION NO.
FluiDyne Engineering Corpo	oration			
5900 Olson Memorial Highw Minneapolis, MN 55422-499	•		98. DATED (SEE )	'EM : 1)
		•		OF CONTRACT ORDER NO.
			108. DATED SEE	EM 131 4-30-93
	ILITY CODE SITEM ONLY APPLIES TO			
By separate letter or telegram which includes a referen T.HE PLACE DESIGNATED FOR THE RECEIPT OF OF rrure of this amendment you desire to change an other all bierence to the solicitation and this amendment, and is re- 2. ACCCUNTING AND APPROPRIATION DATA ////	FERS PRIOR TO THE HO	UR AND DATE SPEC Inge may be made by	FIED MAY RESULT IN REJEC telegram or letter, provided a	TION OF YOUR OFFER, If by
/A				
	EM APPLIES ONLY TO VO FIES THE CONTRACTION			
A A. THIS CHANGE ORDER IS ISSUED PURSUANT TO ITEM 10A. B. THE ABOVE NUMBERED CONTRACT/ORDER IS ALC SET FORTH IN ITEM 14, PURSUANT TO THE	MODIFIED TO REFLECT		·	
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERE	ED INTO PURSUANT TO A			
D. OTHER (Specify type of modification and authori	(Y)			
:MPORTANT: Contractor X is not. is	required to sign this docur		copies to the issuing office.	
OESCRIPTION OF AMENDMENT/MODIFICATION ( UBJECT: NASA Contract NAS1-2000 Automation Systems The purpose of this modification is to mane contract:	(Organized by UCF section 01; Engineering D	needings, inclusing s esign. Developi	Mataporecontract subject mat ment. Installation an	d Testing of Facility
ixcept as provided herein, all terms and conditions of the	document referenced in :			
A. NAME AND FITLE OF SIGNER (Type or Part)		BLANCHE		FICER Type or Print)
Sentitute of cerson suinonzed to signi	SC. DATE SIGNED	BY Inc.	TES OF AMERICA	
INT Stand Constant Co		5/4	and a second	STANDARD FORM 10 (Rev 10-83) 

PATENT RIGHTS - RETENTION BY THE CONTRACTOR (FAR 52.227-11) (SHORT FORM) (JUN 1989) - AS MODIFIED BY NASA FAR NASA FAR SUPPLEMENT 18-52.227-11

(a) Definitions. (1) "Invention" means any invention or discovery which is or may be patentable or otherwise protectable under title 35 of the United States Code, or any novel variety of plant which is or may be protected under the Plant Variety Protection Act (7 U.S.C. 2321, et seg.).

(2) "Made" when used in relation to any invention means the conception of first actual reduction to practice of such invention.

(3) "Nonprofit organization" means a university or other institution of higher education or an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 (26 U.S.C. 501(c)) and exempt from taxation under section 501(a) of the Internal Revenue Code (26 U.S.C. 501(a)) or any nonprofit scientific or educational organization qualified under a state nonprofit organization statute.

(4) "Practical application" means to manufacture, in the case of a composition of product; to practice, in the case of a process or method; or to operate, in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are, to the extent permitted by law or Government regulations, available to the public on reasonable terms.

(5) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 532) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of this clause, the size standards for small business concerns involved in Government procurement and subcontracting at 13 CFR 121.3-8 and 13 CFR 121.3-12, respectively, will be used.

(5) "Subject invention" means any invention of the contractor conceived or first actually reduced to practice in the performance of work under this contract, provided that in the case of a variety of plant, the date of determination (as defined in section 41(d) of the Plant Variety Protection Act, 7 U.S.C. 2401(d)) must also occur during the period of contract performance.

(b) Allocation of principal rights. The Contractor may retain the entire right, title, and interest throughout the world to each subject invention subject to the provisions of this clause and 35 U.S.C. 203. With respect to any subject invention in which the Contractor retains title, the Federal Government shall have an nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world.

(c) Invention disclosure, election of title, and filing of patent application by Contractor. (1) The Contractor will disclose each subject invention to the Federal agency within 2 months after the inventor discloses it in writing to Contractor personnel responsible for patent matters. The disclosure to the agency shall be in the form of a written report and shall identify the contract under which the invention was made and the inventor(s). It shall be sufficiently complete in technical detail to convey a clear understanding to the extent known at the time of the disclosure, of the nature, purpose, operation, and the physical, chemical, biological or electrical characteristics of the invention. The disclosure shall also identify any publication, on sale or public use of the invention and whether a manuscript describing the invention has been submitted for publication and, if so, whether it has been accepted for publication at the time of disclosure. In addition, after disclosure to the agency, the Contractor will promptly notify the agency of the acceptance of any manuscript describing the

> ATTACEMENT PAGE 1 OF 5

invention for publication or of any on sale or public use planned by the Contractor.

(2) The Contractor will elect in writing whether or not to retain title to any such invention by notifying the Federal agency within 2 years of disclosure to the Federal agency. However, in any case where publication, on sale or public use has initiated the 1-year statutory period wherein valid patent protection can still be obtained in the United States, the period for election of title may be shortened by the agency to a date that is no more that 50 days prior to the end of the statutory period.

(3) The Contractor will file its initial patent application on a subject invention to which it elects to retain title within 1 year after election of title or, if earlier, prior to the end of any statutory period wherein valid patent protection can be obtained in the United States after a publication, on sale, or public use. The Contractor will file patent applications in additional countries or international patent offices within either 10 months of the corresponding initial patent application or 5 months from the date permission is granted by the Commissioner of Patents and Trademarks to file foreign patent applications where such filing has been prohibited by a Secrecy Order.

(4) Requests for extension of the time for disclosure election, and filing under subparagraphs (c)(1), (2), and (3) of this clause may, at the discretion of the agency, be granted.

(d) Conditions when the Government may obtain title. The Contractor will convey to the Federal agency, upon written request, title to any subject invention--

(1) If the Contractor fails to disclose or elect title to the subject invention within the times specified in paragraph (c) of this clause, or elects not to retain title; provided, that the agency may only request title within 60 days after learning of the failure of the Contractor to disclose or elect within the specified times.

(2) In those countries in which the Contractor fails to file patent applications within the times specified in paragraph (c) of this clause; provided, however, that if the Contractor has filed a patent application in a country after the times specified in paragraph (c) of this clause, but prior to its receipt of the written request of the Federal agency, the Contractor shall continue to retain title in that country.

(3) In any country in which the Contractor decides not to continue the prosecution of any application for, to pay the maintenance fees on, or defend in reexamination or opposition proceeding on, a patent on a subject invention.
(e) Minimum rights to Contractor and protection of the Contractor right to file.
(1) The Contractor will retain a nonexclusive royalty-free license throughout the world in each subject invention to which the Government obtains title, except if the Contractor fails to disclose the invention within the times specified in paragraph (c) of this clause. The Contractor's license extends to its domestic subsidiary and affiliates, if any, within the corporate structure of which the Contractor is a party and includes the right to grant sublicenses of the same scope to the extent the Contractor was legally obligated to do so at the time the contract was awarded. The license is transferable only with the approval of the Federal agency, except when transferred to the successor of that part of the Contractor's business to which the invention pertains.

(2) The Contractor's domestic license may be revoked or modified by the funding Federal agency to the extent necessary to achieve expeditious practical application of subject invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions at 37 CFR Part 404 and agency licensing regulations (if any). This license will not be revoked in that field of use or the geographical areas in which the Contractor has achieved

> ATTACEMENT PAGE 1 OF 5

practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of the funding Federal agency to the extent the Contractor, its licensees, or the domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country.

(3) Before revocation or modification of the license, the funding Federal agency will furnish the Contractor a written notice of its intention to revoke or modify the license, and the Contractor will be allowed 30 days (or such other time as may be authorized by the funding Federal agency for good cause shown by the Contractor) after the notice to show cause why the license should not be revoked or modified. The Contractor has the right to appeal, in accordance with applicable regulations in 37 CFR Part 404 and agency regulations, if any, concerning the licensing of Government-owned inventions, any decision concerning the revocation or modification of the license.

(f) Contractor action to protect the Government's interest. (1) The Contractor agrees to execute or to have executed and promptly deliver to the Federal agency all instruments necessary to

(i) establish or confirm the rights the Government has throughout the world in those subject inventions to which the Contractor elects to retain title, and

(ii) convey title to the Federal agency when requested under paragraph
 (d) of this clause and to enable the Government to obtain patent protection throughout the world in that subject invention.

(2) The Contractor agrees to require, by written agreement, its employees, other than clerical and nontechnical employees, to disclose promptly in writing to personnel identified as responsible for the administration of patent matters and in a format suggested by the Contractor each subject invention made under contract is order that the Contractor can comply with the disclosure provisions of paragraph (c) of this clause, and to execute all papers necessary to file patent applications on subject inventions and to establish the Government's rights in the subject inventions. This disclosure format should require, as a minimum, the information required by subparagraph (c)(1) of this clause. The Contractor shall instruct such employees, through employee agreements or other suitable educational programs, on the importance of reporting inventions in sufficient time to permit the filing of patent applications prior to U.S. or foreign statutory bars.

(3) The Contractor will notify the Federal agency of any decisions not to continue the prosecution of a patent application, pay maintenance fees, or defend in a reexamination or opposition proceeding on a patent, in any country, not less than 30 days before the expiration of the response period required by the relevant patent office.

(4) The Contractor agrees to include, within the specification of any United States patent application and any patent issuing thereon covering a subject invention, the following statement, "This invention was made with Government support under (identify the contract) awarded by (identify the Federal agency). The Government has certain rights in the invention."

(5) The contractor shall provide the contracting officer the following:

(i) A listing every 12 months (or such longer period as the contracting officer may specify) from the date of the contract, of all subject inventions required to be disclosed during the period.

(ii) A final report prior to closeout of the contract listing all subject inventions or certifying that there were none.

(iii) Upon request, the filing date, serial number and title, a copy of the patent application and patent number and issue date for any subject invention in any country in which the contractor has applied for patents.

ATTACHMENT PAGE 3 OF 5 (iv) An irrevocable power to inspect and make copies of the patent application file, by the Government, when a Federal Government employee is a coinventor.

(g) Subcontracts. (1) The Contractor will include this clause, suitably modified to identify the parties, in all subcontracts, regardless of tier, for experimental, developmental, or research work to be performed by a small business firm or domestic nonprofit organization. The subcontractor will retain all rights provided for the Contractor in this clause, and the Contractor will not, as part of the consideration for awarding the subcontract, obtain rights in the subcontractor's subject inventions.

(2) The contractor shall include the clause in the NASA FAR Supplement at 18-52.227-70. New Technology, suitably modified to identify the parties, in all subcontracts, regardless of tier, for experimental, developmental, research, design, or engineering work to be performed by other than a small business firm or nonprofit organization.

(3) In the case of subcontracts, at any tier, the agency, subcontractor, and the Contractor agree that the mutual obligations of the parties created by this clause constitute a contract between the subcontractor and the Federal agency with respect to the matters covered by the clause; provided, however, that nothing in this paragraph is intended to confer any jurisdiction under the Contract Disputes Act in connection with proceedings under paragraph (j) of this clause. Reporting on utilization of subject inventions. The Contractor agrees to (h) submit, on request, periodic reports no more frequently than annually on the utilization of a subject invention or on efforts at obtaining such utilization that are being made by the Contractor or its licensees or assignees. Such reports shall include information regarding the status of development, date of first commercial sale or use, gross royalties received by the Contractor, and such other data and information as the agency may reasonably specify. The Contractor also agrees to provide additional reports as may be requested by the agency in connection with any march-in proceeding undertaken by the agency in accordance with paragraph (j) of this clause. As required by 35 U.S.C. 202(c)(5), the agency agrees it will not disclose such information to persons outside the Government without permission of the Contractor.

(i) Preference for United States industry. Notwithstanding any other provision of this clause, the Contractor agrees that neither it nor any assignee will grant to any person the exclusive right to use or sell any subject invention in the United States unless such person agrees that any product embodying the subject invention or produced through the use of the subject invention will be manufactured substantially in the United States. However, in individual cases, the requirement for such an agreement may be waived by the Federal agency upon a showing by the Contractor or its assignee that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible.

(j) March-in rights. The Contractor agrees that, with respect to any subject invention in which it has acquired title, the Federal agency has the right in accordance with the procedures in 37 CFR 401.6 and any supplemental regulations of the agency to require the Contractor, an assignee or exclusive licensee of a subject invention to grant a nonexclusive, partially exclusive, or exclusive license in any field of use to a responsible applicant or applicants, upon terms that are reasonable under the circumstances, and if the Contractor, assignee, or exclusive licensee refuses such a request the Federal agency has the right to grant such a license itself if the Federal agency determines that--

> ATTACHMENT PAGE 4 DF 5

(1) Such action is necessary because the Contractor or assignee has not taken, or is not expected to take within a reasonable time, effective steps to achieve practical application of the subject invention in such field of use:

(2) Such action is necessary to alleviate health or safety needs which are not reasonably satisfied by the Contractor, assignee, or their licensees;

(3) Such action is necessary to meet requirements for public use specified by Federal regulations and such requirements are not reasonably satisfied by the contractor, assignee, or licensees; or

(4) Such action is necessary because the agreement required by paragraph (i) of this clause has not been obtained or waived or because a licensee of the exclusive right to use or sell any subject invention in the United States is in breach of such agreement.

(k) Special provisions for contracts with nonprofit organizations. If the Contractor is a nonprofit organization, it agrees that--

(1) Rights to a subject invention in the United States may not be assigned without the approval of the Federal agency, except where such assignment is made to an organization which has as one of its primary functions the management of inventions; provided, that such assignee will be subject to the same provisions as the Contractor;

(2) The Contractor will share royalties collected on a subject invention with the inventor, including Federal employee co-inventors (when the agency deems it appropriate) when the subject invention is assigned in accordance with 35 U.S.C. 202(e) and 37 CFR 401.10;

(3) The balance of any royalties or income earned by the Contractor with respect to subject inventions, after payment of expenses (including payments to inventors) incidental to the administration of subject inventions will be utilized for the support of scientific research or education; and

(4) It will make efforts that are reasonable under the circumstances to attract licensees of subject inventions that are small business firms, and that it will give a preference to a small business firm when licensing a subject invention if the Contractor determines that the small business firm has a plan or proposal for marketing the invention which, if executed, is equally as likely to bring the invention to practical application as any plans or proposals from applicants that are not small business firms; provided, that the Contractor is also satisfied that the small business firm has the capability and resources to carry out its plan or proposal. The decision whether to give a preference in any specific case will be at the discretion of the contractor. However, the Contractor agrees that the Secretary of Commerce may review the Contractor's licensing program and decisions regarding small business applicants, and the Contractor will negotiate changes to its licensing policies, procedures, or practices with the Secretary of Commerce when the Secretary's review discloses that the Contractor could take reasonable steps to more effectively implement the requirements of this subparagraph (k)(4). (1) Communications. (Complete according to agency instructions.)

> ATTACHMENT PAGE 5 OF 5

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5900 Olson Memorial H Minneapolis, MN 55422	÷ •		B. CATED SEE	TEM ( ) )
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T THE PLACE DESIGNATED FOR THE RECEIPT inture of this amendment you desire to change an elerence to the solicitation and this amendment, a 2. ACCOUNTING AND APPROPRIATION DATA	offer aiready submitted , such cha nd is received prior to the obening (If Required)	nde may de made dy te	legram or letter, provided -	UTION OF YOUR OFFER, I by each telegram or teller maxes
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	THIS ITEM APPLIES ONLY TO MO T MODIFIES THE CONTRACT/OR			
A. THIS CHANGE CREEP IS ISSUED PURSUITEM 10A.         ITEM 10A.         B. THE ABOVE NUMBERED CONTRACTION         ISC         SET FORTH IN ITEM 14, PURSUANT         C. THIS SUPPLEMENTAL AGREEMENT IS I	DER IS MODIFIED TO REFLECT TO THE AUTHORITY OF FAR 43.1	THE ADMINISTRATIVE		IN THE CONTRACTIORCER NOL IN
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D. OTHER (Specify type of modification and	f authority)			
. IMPORTANT: Contractor X is not ,	is required to sign this docur		copies to the issuing office	
<ul> <li>DESCRIPTION OF AMENDMENT/MODIFICAT</li> <li>SUBJECT: NASA Contract NAS</li> <li>Automation Systems</li> <li>The purpose of this modification in</li> <li>Funds (APR 1984)as modified by</li> <li>changed as follows:</li> <li>B.4 Contract FundingTask Assignestated as follows:</li> </ul>	1-20001; Engineering D s to provide incrementa v NASA FAR Suppleme	esign. Developm 1 funding pursua nt 18-32.705-2.	ent. Installation ar nt to the clause 52. Accordingly, the (	nd Testing of Facility 232-22 Limitation of Contract Schedule is
Except as provided herein, all terms and condition	ns of the document referenced in i	item 9A or 10A, as here	iotore changed, remains ur	nchanged and in tuil force and effect
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Page 2 of 2

 The attached clause entitled Patent Rights - Retention by the Contractor (FAR 52.227-11) (Short Form) (Jun 1989) - As modified by NASA FAR SUPPLEMENT 18-52.227-11 is hereby added to <u>Section I - Contract Clauses</u> of the contract.

(Please note that information pertaining to this clause is contained in Clause G.3 and Section J - Exhibit A -Contract Documentation Requirements)

2. Paragraph II - DOCUMENT DISTRIBUTION REQUIREMENTS of Exhibit J, Paragraph C is corrected as follows:

The letter code and distribution for the Patent Rights Report is corrected to read: A-1, B-2, and C-1 in lieu of A-1, B-2, E-1.

3. All other terms and conditions remain unchanged.

#### CONTRACT SUMMARY

Current Cost	\$5,787,900
Fee	285,400
Modifications 1 2 2	<u> </u>
Total Cost and Fee	\$5,073,300

Actachment