

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 privileged 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.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 63	3. EFFECTIVE DATE February 11, 1999	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)		
6. ISSUED BY CODE	7. ADMINISTERED BY (If other than Item 6) CODE				

**National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001**

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group 358 E. Filmore Avenue St. Paul, MN 55107-1289	9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED (SEE ITEM 11)
	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
	10B. DATED (SEE ITEM 13) 4-30-93

CODE	FACILITY CODE
------	---------------

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
 See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)


E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraph A is restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CHARLOTTE T. HARDY	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY 	16C. DATE SIGNED 2-11-99

FILE

"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 \$8,281,172 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>Cumulative Authorized tasks thru Mod 62</u>		<u>Max Potential Contract Total</u>
Hours:	78,004	80,000
Est. Cost:	\$8,258,901	\$8,676,968
Fixed Fee:	<u>278,279</u>	<u>285,400</u>
TOTAL	\$8,537,180	\$8,962,368

FUNDING SUMMARY

<u>Previous Incremental Funding</u>	<u>Changed by this Modification</u>	<u>Amount</u>
Cost: \$8,259,822	\$21,350	\$8,281,172
Fee: <u>285,400</u>	<u>-0-</u>	<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

NAS1-20001
Mod. 63

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 2

2. AMENDMENT/MODIFICATION NO.

62

3. EFFECTIVE DATE

January 22, 1999

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

7. ADMINISTERED BY (If other than Item 6)

CODE

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)

Aero Systems Engineering, Inc.
Fluidyne Facilities Group
358 E. Filmore Avenue
St. Paul, MN 55107-1289

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

NAS1-20001

10B. DATED (SEE ITEM 13)

4-30-93

CODE

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraph A is restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

CHARLOTTE T. HARDY

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

BY



1-22-99

(Signature of person authorized to sign)

(Signature of Contracting Officer)

FILE

"A. In accordance with the "Limitation of Funds" clause, the amount allocated 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

<u>Cumulative Authorized tasks thru Mod 62</u>	<u>Max Potential Contract Total</u>
Hours: 76,230	80,000
Est. Cost: \$8,181,168	8,676,968
Fixed Fee: <u>271,950</u>	<u>285,400</u>
TOTAL \$8,453,118	\$8,962,368

FUNDING SUMMARY

<u>Previous Incremental Funding</u>	<u>Changed by this Modification</u>	<u>Amount</u>
Cost: \$8,183,922	\$75,900	\$8,259,822
Fee: <u>285,400</u>	<u>-0-</u>	<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.

NAS1-20001
 Mod. 62

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. <p style="text-align: center;">61</p>	3. EFFECTIVE DATE <p style="text-align: center;">December 9, 1998</p>	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY <p style="text-align: center;">National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001</p>		7. ADMINISTERED BY (If other than Item 6)		

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group 358 E. Fillmore Avenue St. Paul, MN 55107-1289	(x)	9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. <p style="text-align: center;">NAS1-20001</p> 10B. DATED (SEE ITEM 13) <p style="text-align: center;">4-30-93</p>
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
 See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

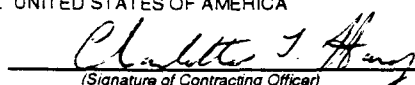
E. IMPORTANT: Contractor is not is required to sign this document and return _____ copies to the issuing office.

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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraph A is restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <p style="text-align: center;">CHARLOTTE T. HARDY</p>	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY 	16C. DATE SIGNED <p style="text-align: center;">12/9/98</p>
<small>(Signature of person authorized to sign)</small>		<small>(Signature of Contracting Officer)</small>	

FILE

"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

<u>Cumulative Authorized tasks thru Mod 59</u>	<u>Max Potential Contract Total</u>
Hours: 76,149	80,000
Est. Cost: \$8,134,623	\$8,676,968
Fixed Fee: <u>271,662</u>	<u>285,400</u>
TOTAL \$8,406,285	\$8,962,368

FUNDING SUMMARY

<u>Previous Incremental Funding</u>	<u>Changed by this Modification</u>	<u>Amount</u>
Cost: \$8,133,922	\$50,000	\$8,183,922
Fee: <u>285,400</u>	<u>-0-</u>	<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

NAS1-20001
Mod. 61

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO. 61)		3. EFFECTIVE DATE September 15, 1998	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY (If other than Item 6)		

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group 358 E. Filmore Avenue St. Paul, MN 55107-1289		(x)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
			10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

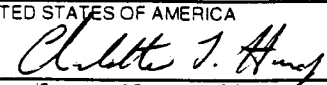
E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraph A is restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CHARLOTTE T. HARDY	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY 	16C. DATE SIGNED 9/15/98

FILE

"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 \$8,133,922 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

<u>Cumulative Authorized tasks thru Mod 59</u>		<u>Max Potential Contract Total</u>
Hours:	76,069	80,000
Est. Cost:	\$8,093,323	\$8,676,968
Fixed Fee:	<u>271,376</u>	<u>285,400</u>
TOTAL	\$8,364,699	\$8,962,368

FUNDING SUMMARY

<u>Previous Incremental Funding</u>	<u>Changed by this Modification</u>	<u>Amount</u>
Cost: \$8,098,922	\$35,000	\$8,133,922
Fee: <u>285,400</u>	<u>-0-</u>	<u>285,400</u>
TOTAL \$8,384,322	\$35,000	\$8,419,322

ACCOUNTING AND APPROPRIATION DATA

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

NAS1-20001
Mod. 60

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	OMB Approval #750-0047 PAGE 1 OF 3 PAGES	
2. AMENDMENT/MODIFICATION NO. 59	3. EFFECTIVE DATE SEP 15 1998	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (if applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23881-2199		7. ADMINISTERED BY (if other than item 6) CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP Code) Aero Systems Engineering, Inc. 358 East Fillmore Avenue St. Paul, MN 55107		9. AMENDMENT OF SOLICITATION NO.	10. DATED (MCE/MSM/TS)	
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001	
			10B. DATED (MCE/MSM/TS) April 30, 1993	
CODE	FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 13, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)
N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input checked="" type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(a).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	Mutual Agreement
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by DCF section headings, including solicitation/contract subject matter where feasible)
The purpose of this modification is to make changes to Clause C.1 entitled "Statement of Work -Engineering Design Development, Installation and Testing of Facility Automation Systems. Therefore, the following changes are made to the contract:

(Continued on Page 2)

(continued)

Except as provided herein, all terms and conditions of the document referenced in item 8A or 10A, as hereafter changed, remains unchanged and in full force and effect.

16A. NAME AND TITLE OF BUYER (Type or print) William T. Holt, Sr. P.S., Program Manager	16B. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CHARLOTTE T. HARDY, CONTRACTING OFFICER
17A. CONTRACTING OFFICER <i>William T. Holt</i> (Signature of person authorized to sign)	17B. DATE SIGNED 9/15/98
17C. DATE SIGNED 9/15/98	17D. UNITED STATES OF AMERICA BY <i>Charlotte T. Hardy</i> (Signature of Contracting Officer)
17E. DATE SIGNED 9/15/98	

NSN 7540-01-280-7000 PREVIOUS EDITION UNUSABLE
30-108 Computer Generated
STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FPMR (48 CFR) 101-11.6

FILE

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.

NAS1-20001
Modification No. 59
Page 3 of 3

(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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGE 1 2
2. AMENDMENT/MODIFICATION NO. 58	3. EFFECTIVE DATE September 14, 1998	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	CODE	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group 358 E. Filmore Avenue St. Paul, MN 55107-1289		(x)	9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NASI-20001	
			10B. DATED (SEE ITEM 13) 4-30-93	
CODE	FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)


E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**

Subject: Contract NASI-20001 - Engineering Design, Development, Installation and Testing of Facility Automation Systems

The purpose of this modification is to make changes regarding the internal allocation of funds to be obligated against the various tasks issued under the subject contract.

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CHARLOTTE T. HARDY
(Signature of person authorized to sign)	BY  (Signature of Contracting Officer)
	9/14/95

FILE

The funding amounts set forth 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 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
Transfer funding in the amount of \$323 on P/R DAE.1021 from Task 25 to Task 31

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGES
1 2

2. AMENDMENT/MODIFICATION NO. 57
3. EFFECTIVE DATE July 31, 1998
4. REQUISITION/PURCHASE REQ. NO.
5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001
7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)
Aero Systems Engineering, Inc.
Fluidyne Facilities Group
Attn: Mr. Tom Holt
358 E. Filmore Avenue
St. Paul, MN 55107-1289
9A. AMENDMENT OF SOLICITATION NO.
9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT/ORDER NO.
X NAS1-20001
10B. DATED (SEE ITEM 13)
4-30-97
CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraph A is restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
CHARLOTTE T. HARDY
15B. CONTRACTOR/OFFEROR
15C. DATE SIGNED
16B. UNITED STATES OF AMERICA
BY Charlotte T. Hardy
(Signature of Contracting Officer)
16C. DATE SIGNED
7/31/98
(Signature of person authorized to sign)

FILE COPY

"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 \$8,098,922 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

<u>Cumulative Authorized tasks thru Mod 56</u>		<u>Max Potential Contract Total</u>
Hours:	76,069	80,000
Est. Cost:	\$8,050,523	\$8,676,968
Fixed Fee:	<u>271,376</u>	<u>285,400</u>
TOTAL	\$8,321,899	\$8,962,368

FUNDING SUMMARY

<u>Previous Incremental Funding</u>	<u>Changed by this Modification</u>	<u>Amount</u>
Cost: \$8,070,922	\$28,000	\$8,098,922
Fee: <u>285,400</u>	<u>-0-</u>	<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.

NAS1-20001
Mod. 57

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGES
1 2

2. AMENDMENT/MODIFICATION NO. **56**
3. EFFECTIVE DATE **April 30, 1998**
4. REQUISITION/PURCHASE REQ. NO.
5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
**National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001**
7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)
**Aero Systems Engineering, Inc.
Fluidyne Facilities Group
Attn: Mr. Tom Holt
358 E. Filmore Avenue
St. Paul, MN 55107-1289**
9A. AMENDMENT OF SOLICITATION NO.
9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT ORDER NO.
X NAS1-20001
10B. DATED (SEE ITEM 13)
4-30-97
CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
B. THE ABOVE NUMBERED CONTRACT ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraph A is restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
CHARLOTTE T. HARDY
15B. CONTRACTOR/OFFEROR
15C. DATE SIGNED
16B. UNITED STATES OF AMERICA
BY **Charlotte T. Hardy** 4/30/98
(Signature of person authorized to sign) (Signature of Contracting Officer)

FILE COPY

"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

<u>Cumulative Authorized tasks thru Mod 54</u>	<u>Max Potential Contract Total</u>
Hours: 67,378	80,000
Est. Cost: \$7,264,929	\$8,676,968
Fixed Fee: <u>240,371</u>	<u>285,400</u>
TOTAL \$7,505,300	\$8,962,368

FUNDING SUMMARY

<u>Previous Incremental Funding</u>	<u>Changed by this Modification</u>	<u>Amount</u>
Cost: \$7,589,198	\$481,724	\$8,070,922
Fee: 285,400	-0-	<u>285,400</u>
TOTAL \$7,874,598	\$481,724	\$8,356,322

ACCOUNTING AND APPROPRIATION 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

NAS1-20001
Mod. 56

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGES
1 2

2. AMENDMENT/MODIFICATION NO. 55
3. EFFECTIVE DATE FEB 27 1998
4. REQUISITION/PURCHASE REQ. NO.
5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001
7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)
Aero Systems Engineering, Inc.
Fluidyne Facilities Group
Attn: Mr. Tom Holt
358 E. Filmore Avenue
St. Paul, MN 55107-1289
9A. AMENDMENT OF SOLICITATION NO.
9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT/ORDER NO.
X NAS1-20001
10B. DATED (SEE ITEM 13)
4-30-97
CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraph A is restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
15B. CONTRACTOR/OFFEROR
15C. DATE SIGNED
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
CHARLOTTE T. HARDY
16B. UNITED STATES OF AMERICA
BY Charlotte T. Hardy
(Signature of Contracting Officer)
16C. DATE SIGNED
2/27/98

FILE COPY

"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 \$7,589,198 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

<u>Cumulative Authorized tasks thru Mod 54</u>	<u>Max Potential Contract Total</u>
Hours: 67,378	80,000
Est. Cost: \$7,264,929	\$8,676,968
Fixed Fee: <u>240,371</u>	<u>285,400</u>
TOTAL \$7,505,300	\$8,962,368

FUNDING SUMMARY

<u>Previous Incremental Funding</u>	<u>Changed by this Modification</u>	<u>Amount</u>
Cost: \$7,265,698	\$323,500	\$7,589,198
Fee: 285,400	-0-	<u>285,400</u>
TOTAL \$7,551,098	\$323,500	\$7,874,598

ACCOUNTING AND APPROPRIATION 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

NAS1-20001
Mod. 55

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. <p style="text-align: center;">54</p>	3. EFFECTIVE DATE <p style="text-align: center;">JAN 12 1998</p>	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY <p style="text-align: center;">National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001</p>		7. ADMINISTERED BY (If other than Item 6)		

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289	(x)	9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. <p style="text-align: center;">NAS1-20001</p> 10B. DATED (SEE ITEM 13) <p style="text-align: center;">4-30-97</p>
CODE		FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
 See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

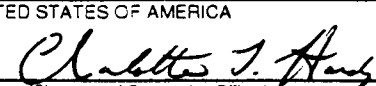
E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraphs A and B are restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <p style="text-align: center;">CHARLOTTE T. HARDY</p>
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED
(Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)
	16C. DATE SIGNED <p style="text-align: right;">1-12-98</p>

FILE COPY

"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

<u>Cumulative Authorized tasks thru Mod 53</u>		<u>Max Potential Contract Total</u>
Hours:	64,895	80,000
Est. Cost:	\$6,796,482 (Corrects Mod. 52)	\$8,676,968
Fixed Fee:	<u>231,513</u>	<u>285,400</u>
TOTAL	\$7,027,995	\$8,962,368

FUNDING SUMMARY

<u>Previous Incremental Funding</u>	<u>Changed by this Modification</u>	<u>Revised Amount</u>
Cost: \$6,820,121	\$445,577	\$7,265,698
Fee: <u>280,977</u>	<u>4,423</u>	<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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 53	3. EFFECTIVE DATE JAN 08 1998	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY (If other than Item 6)		

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-97
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Limitation of Funds Clause 52.232-22
	D. OTHER (Specify type of modification and authority).

E. IMPORTANT: Contractor is not, x is required to sign this document and return 3 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
 Subject: Contract NAS1-20001 - Engineering Design, Development, Installation and Testing of Facility Automation Systems

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 of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) JAMES R. DINKINS <i>ASST MANAGER - HAMPTON OFFICE</i>	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CHARLOTTE T. HARDY
15B. CONTRACTOR/OFFEROR <i>James R Dinkins</i> (Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY <i>Charlotte T. Hardy</i> (Signature of Contracting Officer)
15C. DATE SIGNED 1/8/98	16C. DATE SIGNED 1/8/98

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

15F Amount

Est. Cost \$8,676,968
 Est. Fee 285,400

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.

CONTRACT SUMMARY

<u>Cumulative Authorized Tasks to Mod. 52</u>		<u>Max Potential Contract Total</u>
Hours:	64,895	80,000
Est. Cost:	\$6,796,828	\$8,676,968
Fixed Fee:	231,513	285,400
TOTAL:	<u>\$7,028,341</u>	<u>\$8,962,368</u>

Incrementally Funded to Date

Cost: \$6,820,121
 Fee: 280,977
 TOTAL: \$7,101,098

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

	1. CONTRACT ID CODE	PAGE OF PAGES
		1 2

2. AMENDMENT/MODIFICATION NO. 52	3. EFFECTIVE DATE DEC 11 1997	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
--	---	----------------------------------	--------------------------------

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	7. ADMINISTERED BY (If other than Item 6)
---	---

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289	(X)	9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001 10B. DATED (SEE ITEM 13) 4-30-97
--	-----	--

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER-(Specify type of modification and authority) Mutual Agreement

E. IMPORTANT: Contractor is not, x is required to sign this document and return 3 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
Subject: Contract NAS1-20001 - Engineering Design, Development, Installation and Testing of Facility Automation Systems

The purpose of this modification is to provisionally increase the estimated cost and funding of the contract by \$1,265,882 as an interim measure pending completion of evaluation and negotiation of a cost growth proposal. ASE proposal dated September 2, 1997. Therefore, the following changes are made to the contract:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) JAMES R. BINKINS <i>ASSISTANT MANAGER - FACILITY OFFICE</i>	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CHARLOTTE T. HARDY
15B. CONTRACTOR/OFFEROR James R. Binkins <i>(Signature of person authorized to sign)</i>	15C. DATE SIGNED 12/11/97
	16B. UNITED STATES OF AMERICA BY Charlotte T. Hardy <i>(Signature of Contracting Officer)</i>
	16C. DATE SIGNED 12/11/97

FILE COPY

1. Standard Form 26, Block 15F Amount and Block 15G. Total Amount of Contract 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

<u>Present Cumulative (Task) Value, to Mod 51</u>	<u>Max Potential Contract Total</u>
Hours: 44,232	80,000
Est. Cost: \$4,345,678	
Fixed Fee: 157,798	285,400

FUNDING SUMMARY

<u>Previously Funded</u>	<u>Changed by this Modification</u>	<u>Revised Amount</u>
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

ACCOUNTING AND APPROPRIATION DATA

P/R: GGK 1411 J/O: C261201 \$1,265,882 (complete) - Task 31

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 51		3. EFFECTIVE DATE NOV 14 1997	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		GP	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289			(x)	9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
			X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001	
				10B. DATED (SEE ITEM 13) 4-30-97	
CODE	FACILITY CODE				

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraphs A and B are restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CHARLOTTE T. HARDY	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Charlotte T. Hardy</i> (Signature of Contracting Officer)	16C. DATE SIGNED 11/14/97
(Signature of person authorized to sign)			

FILE COPY

"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

<u>Present Cumulative (Task) Value, to Mod 50</u>	<u>Max Potential Contract Total</u>
Hours: 44,213	80,000
Est. Cost: \$4,318,219	\$5,787,900
Fixed Fee: 157,743	285,400

FUNDING SUMMARY

<u>Previously Funded</u>	<u>Changed by this Modification</u>	<u>Revised Amount</u>
Cost: \$5,599,071	\$14,299	\$5,613,370
Fee: 221,145	701	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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 50	3. EFFECTIVE DATE SEP 25 1997	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	CODE GP	7. ADMINISTERED BY (If other than Item 6)		CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)		(x)	9A. AMENDMENT OF SOLICITATION NO.
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
			10B. DATED (SEE ITEM 13) 4-30-97
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
 See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority):

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraphs A and B are restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CHARLOTTE T. HARDY	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Charlotte T. Hardy</i>	16C. DATE SIGNED 9/25/97
(Signature of person authorized to sign)		(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

<u>Present Cumulative (Task) Value, to Mod 50</u>	<u>Max Potential Contract Total</u>
Hours: 43,563	80,000
Est. Cost: \$4,220,538	\$5,787,900
Fixed Fee: 155,411	285,400

FUNDING SUMMARY

<u>Previously Funded</u>	<u>Changed by this Modification</u>	<u>Revised Amount</u>
Cost: \$5,580,339	\$18,732	\$5,599,071
Fee: 220,227	918	221,145
TOTAL \$5,800,566	\$19,650	\$5,820,216

ACCOUNTING AND APPROPRIATION DATA

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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 49	3. EFFECTIVE DATE SEP 22 1997	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	6. ISSUED BY CODE GP	7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289		(x)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
			10B. DATED (SEE ITEM 13) 4-30-97

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: Clause B.4 entitled "Contract Funding -- Task Assignments (LaRC 52.232-111) (JUN 1991). Paragraphs A and B are restated as follows:

(CONTINUED)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Charlotte J. Hardy</i>	16C. DATE SIGNED 9-22-97
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

FILE COPY

"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

<u>Present Cumulative (Task) Value, to Mod 49</u>	<u>Max Potential Contract Total</u>
Hours: 43,249	80,000
Est. Cost: \$4,201,915	\$5,787,900
Fixed Fee: 154,291	285,400

FUNDING SUMMARY

<u>Previously Funded</u>	<u>Changed by this Modification</u>	<u>Revised Amount</u>
Cost: \$4,249,166	\$1,331,173	\$5,580,339
Fee: 155,000	65,227	220,227
TOTAL \$4,404,166	\$1,396,400	\$5,800,566

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

NAS1-20001
Mod. 49

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 48	3. EFFECTIVE DATE 8/7/97	4. REQUISITION/PURCHASE REQ. NO. see below	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY (If other than Item 6)	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
GGH.1682, \$26,000 (COMPLETE); GGJ.1369, \$30,000 (COMPLETE); GGJ.1379, \$10,000 (COMPLETE);
GGK.1358, \$6,500 (COMPLETE)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not required to sign this document and return _____ copy to the issuing office.

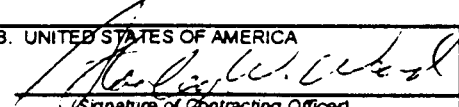
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to: add \$64,500 in funding for cost, and \$8,000 in funding for fee; and to move funding, which was previously obligated, between existing Tasks.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 8/7/97
(Signature of person authorized to sign)			

A.D. file copy

"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.

CONTRACT SUMMARY

Present Cum. (Task) Value, to Mod 48	Max Potential Contract Total
Hours: 42,130	80,000
Est. Cost: \$4,159,957	\$5,787,900
Fixed Fee: \$150,299	\$285,400

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.

20001 mds

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGES
1 2

2. AMENDMENT/MODIFICATION NO. 47
3. EFFECTIVE DATE 5/20/97
4. REQUISITION/PURCHASE REQ. NO. see below
5. PROJECT NO. (If applicable)
6. ISSUED BY CODE
7. ADMINISTERED BY (If other than Item 6) CODE

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)
Aero Systems Engineering, Inc.
Fluidyne Facilities Group
Attn: Mr. Tom Holt
358 E. Filmore Avenue
St. Paul, MN 55107-1289
9A. AMENDMENT OF SOLICITATION NO.
9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT/ORDER NO.
NAS1-20001
10B. DATED (SEE ITEM 13)
4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

- (a) By completing Items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
GGH.1669, \$303,000 (COMPLETE); GGK.1332, \$10,000 (COMPLETE)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

- (x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
- X B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not, is required to sign this document and return copy to the issuing office.

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

The purpose of this modification is to: add \$309,000 in funding for cost, and \$4,000 in funding for fee; and to move funding, which was previously obligated, between existing Tasks.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
Stanley W. Ward
15B. CONTRACTOR/OFFEROR
15C. DATE SIGNED
16B. UNITED STATES OF AMERICA
BY (Signature of Contracting Officer)
16C. DATE SIGNED
5/20/97

"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	Max Potential Contract Total
Hours: 40,952	80,000
Est. Cost: \$4,073,248	\$5,787,900
Fixed Fee: \$146,097	\$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

1/21/97
1/22/97
1/23/97

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO. 46		3. EFFECTIVE DATE 4/22/97	4. REQUISITION/PURCHASE REQ. NO. see below	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE	7. ADMINISTERED BY (If other than Item 6) CODE			

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)		(x)	9A. AMENDMENT OF SOLICITATION NO.
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
			10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

- (a) By completing Items 8 and 15, and returning _____ copies of the amendment;
- (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
- (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
GGH.1664, \$265,000 (COMPLETE); GGK6.1051, \$2.610 (COMPLETE)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not, is required to sign this document and return _____ copy to the issuing office.

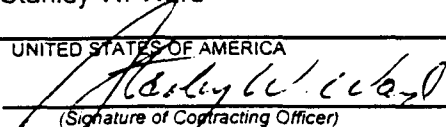
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to add \$261,610 in funding for cost, and \$6,000 in funding for fee.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding—Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		Stanley W. Ward	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY  (Signature of Contracting Officer)	4/22/97

"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.

CONTRACT SUMMARY

Present Cum. (Task) Value, to Mod 46	Max Potential Contract Total
Hours: 39,934	80,000
Est. Cost: \$3,768,230	\$5,787,900
Fixed Fee: \$142,465	\$285,400

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

NAS-20001
Mod 45

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO. 45		3. EFFECTIVE DATE 3/3/97	4. REQUISITION/PURCHASE REQ. NO. see below	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE		7. ADMINISTERED BY (If other than Item 6) CODE		

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)		(x)	9A. AMENDMENT OF SOLICITATION NO.
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
			10B. DATED (SEE ITEM 13) 4-30-93
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
DAE.1021, \$12,000 (COMPLETE); GGH.1659, 16,000 (COMPLETE)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not, is required to sign this document and return _____ copy to the issuing office.

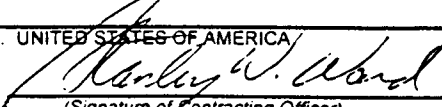
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to add \$28,000 in funding for cost.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY 	16C. DATE SIGNED 3/3/97
(Signature of person authorized to sign)		(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 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.

CONTRACT SUMMARY

Present Cum. (Task) Value, to Mod 45	Max Potential Contract Total
Hours: 37,954	80,000
Est. Cost: \$3,479,793	\$5,787,900
Fixed Fee: \$135,400	\$285,400

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

Please file in 451-2001

and 44

OMB Approval #: 2 0042

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 44	3. EFFECTIVE DATE 2/13/97	4. REQUISITION/PURCHASE REQ. NO. see below	5. PROJECT NO. (if applicable)
6. ISSUED BY CODE	7. ADMINISTERED BY (if other than Item 6) CODE		

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not required to sign this document and return _____ copy to the issuing office.

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

The purpose of this modification is to make changes regarding the internal allocation of funds to be obligated against the various Tasks issued under the subject contract. Funding which is deobligated from Task 10 is concurrently obligated to Tasks 11 and 14 as described below. Accordingly, the following changes are hereby made:

Task 10, PR GGH.1503, (\$40,000); GGD.1029, (\$22,700)
Task 11, PR GGH.1503, \$28,491; GGD.1029 \$22,700
Task 14, PR GGH. 1503, \$11,509

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Stanley W. Ward</i> (Signature of Contracting Officer)	16C. DATE SIGNED 2/13/97

please file, 2 sec 1
 mod 43

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 43	3. EFFECTIVE DATE 1/13/97	4. REQUISITION/PURCHASE REQ. NO. see below	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	7. ADMINISTERED BY (If other than Item 6)	CODE	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
 GGH.1654, \$34,750 (complete); GGI.2025, \$13,000 (complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not, is required to sign this document and return _____ copy to the issuing office.

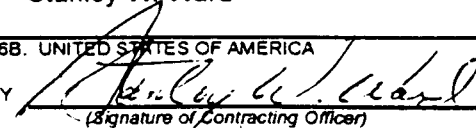
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to add \$46,750 in funding for cost, and \$1,000 in funding for fee.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 1/13/97
(Signature of person authorized to sign)			

"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.

CONTRACT SUMMARY

Present Cum. (Task) Value, to Mod 43	Max Potential Contract Total
Hours: 37,894	80,000
Est. Cost: \$3,433,359	\$5,787,900
Fixed Fee: \$135,187	\$285,400

FUNDING SUMMARY

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

*Plan for
NAS1-20001
Mod 12*

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 42	3. EFFECTIVE DATE 12/27/96	4. REQUISITION/PURCHASE REQ. NO. see below	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY (If other than Item 6)	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
GGK.1293, \$50,000(complete); GGH.1653, \$40,000 (complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not, is required to sign this document and return _____ copy to the issuing office.

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

The purpose of this modification is to add \$82,530 in funding for cost, and \$7,470 in funding for fee.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Stanley W. Ward</i> (Signature of Contracting Officer)	16C. DATE SIGNED 12/27/96
(Signature of person authorized to sign)			

"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	Max Potential Contract Total
Hours: 37,854	80,000
Est. Cost: \$3,420,359	\$5,787,900
Fixed Fee: \$135,044	\$285,400

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 G GK.1293, \$50,000 (complete), Task 24
PR G GH.1653, \$40,000 (complete), Task 19

Had File 2001,
Add 41

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 41	3. EFFECTIVE DATE 12/16/96	4. REQUISITION/PURCHASE REQ. NO. see below	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE	7. ADMINISTERED BY (If other than Item 6) CODE		
National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)		(x)	9A. AMENDMENT OF SOLICITATION NO.
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
			10B. DATED (SEE ITEM 13) 4-30-93
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

- (a) By completing Items 8 and 15, and returning _____ copies of the amendment;
- (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
- (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
GGK.1285, \$140,000(complete); GGI.2008, (\$105,000) (complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not, is required to sign this document and return _____ copy to the issuing office.

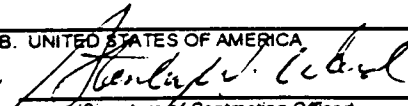
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to add \$140,000 and concurrently subtract \$105,000, for a net funding increase of \$35,000 for cost.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 12/16/96

"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	Max Potential Contract Total
Hours: 32,432	80,000
Est. Cost: \$3,263,019	\$5,787,900
Fixed Fee: \$125,519	\$285,400

FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount
Cost \$3,421,776	\$ 35,000	\$3,456,776
Fee \$128,530	\$0	\$128,530
Total \$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

NAS1-20001, Mod 40

OMB Approval #: J-0042

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
2. AMENDMENT/MODIFICATION NO. 40
3. EFFECTIVE DATE 11/13/96
4. REQUISITION/PURCHASE REQ. NO. see below
5. PROJECT NO. (if applicable)

6. ISSUED BY
National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

7. ADMINISTERED BY (if other than Item 6)

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)
Aero Systems Engineering, Inc.
Fluidyne Facilities Group
Attn: Mr. Tom Holt
358 E. Filmore Avenue
St. Paul, MN 55107-1289

9A. AMENDMENT OF SOLICITATION NO.
9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
10B. DATED (SEE ITEM 13) 4-30-93

CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.

(a) By completing Items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.

12. ACCOUNTING AND APPROPRIATION DATA (if required)
GGH.1651, \$217,000 (complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not required to sign this document and return copy to the issuing office.

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

The purpose of this modification is to add \$217,000 for cost funding.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward
15B. CONTRACTOR/OFFEROR
15C. DATE SIGNED
16B. UNITED STATES OF AMERICA
BY (Signature of Contracting Officer)
16C. DATE SIGNED 11/13/96

NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE

30-105

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

Filis

"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.

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	Max Potential Contract Total
Hours: 32,432	80,000
Est. Cost: \$3,112,956	\$5,787,900
Fixed Fee: \$115,500	\$285,400

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

Issue file NAS1-2001 mod 39

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 39	3. EFFECTIVE DATE 10/15/96	4. REQUISITION/PURCHASE REQ. NO. see below	5. PROJECT NO. (if applicable)
6. ISSUED BY CODE	7. ADMINISTERED BY (if other than Item 6) CODE		

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)
GGH.1645, \$4,875 (complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not required to sign this document and return _____ copy to the issuing office.

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

The purpose of this modification is to add \$4,875 for cost funding.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Stanley W. Ward</i> (Signature of Contracting Officer)	16C. DATE SIGNED 10/15/96
(Signature of person authorized to sign)			

“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	Max Potential Contract Total
Hours: 32,432	80,000
Est. Cost: \$3,112,956	\$5,787,900
Fixed Fee: \$115,500	\$285,400

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

NAS1-20001
mod 38

OMB Approval #: 27 J042

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGES
1 2

2. AMENDMENT/MODIFICATION NO. 38
3. EFFECTIVE DATE 8/28/96
4. REQUISITION/PURCHASE REQ. NO. see below
5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001
7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)
Aero Systems Engineering, Inc.
Fluidyne Facilities Group
Attn: Mr. Tom Holt
358 E. Filmore Avenue
St. Paul, MN 55107-1289
9A. AMENDMENT OF SOLICITATION NO.
9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT/ORDER NO.
NAS1-20001
10B. DATED (SEE ITEM 13)
4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
GGH.1636, \$92,000(complete); 5673.1032, (\$1,009); GGCC.1018, (\$2,302); GGH.1552, (\$28,682); GGI.1081, (\$25,355)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not, is required to sign this document and return ___ copy to the issuing office.

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

The purpose of this modification is to de-obligate \$57,348, and obligate \$92,000, for a net increase of \$34,652 in cost funding.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
Stanley W. Ward
15B. CONTRACTOR/OFFEROR
15C. DATE SIGNED
16B. UNITED STATES OF AMERICA
BY *Stanley W. Ward*
(Signature of Contracting Officer)
16C. DATE SIGNED
8/28/96

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
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 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	Max Potential Contract Total
Hours: 32,372	80,000
Est. Cost: \$3,108,339	\$5,787,900
Fixed Fee: \$115,500	\$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

NAS1-2001
File

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGES
1 2

2. AMENDMENT/MODIFICATION NO. 37
3. EFFECTIVE DATE 8/5/96
4. REQUISITION/PURCHASE REQ. NO. see below
5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
7. ADMINISTERED BY (If other than Item 6) CODE

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State, and Zip Code)

Aero Systems Engineering, Inc.
Fluidyne Facilities Group
Attn: Mr. Tom Holt
358 E. Filmore Avenue
St. Paul, MN 55107-1289

(x) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.
NAS1-20001

X 10B. DATED (SEE ITEM 13)
4-30-93

CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
GGK6.1043, \$160,000 (complete); GGI.2008, \$110,000 (complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

X B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not, is required to sign this document and return _____ copy to the issuing office.

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


The purpose of this modification is to add \$270,000 In cost funding.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
Stanley W. Ward

15B. CONTRACTOR/OFFEROR
(Signature of person authorized to sign)
15C. DATE SIGNED
16B. UNITED STATES OF AMERICA
BY 
(Signature of Contracting Officer)
16C. DATE SIGNED
8/5/96

“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	Max Potential Contract Total
Hours: 32,372	80,000
Est. Cost: \$3,108,339	\$5,787,900
Fixed Fee: \$115,500	\$285,400

FUNDING SUMMARY

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

ACCOUNTING AND APPROPRIATION DATA

PR GKG6.1043, \$160,000 (complete), Task 19
 PR GGI .2008, \$110,000 (complete), Task 21

NAS-20001
200026

OMB Approval #: 2700-0042

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CCDE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 36	3. EFFECTIVE DATE 7/12/96	4. REQUISITION/PURCHASE REQ. NO. see below	5. PROJECT NO. (If applicable)
8. ISSUED BY CCDE		7. ADMINISTERED BY (If other than Item 6) CCDE	

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)		(x)	9A. AMENDMENT OF SOLICITATION NO.
Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
			10B. DATED (SEE ITEM 13) 4-30-93
CCDE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 3 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
GGI.1076 (\$4,167) (complete); GGI.1088 (\$45,000) (complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, X is required to sign this document and return 1 copy to the issuing office.

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

The purpose of this modification is to deobligate \$49,167 in cost funding.

Accordingly, the Contract Schedule of the subject contract, Section B.4. Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991). Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward	
15B. CONTRACTOR/OFFICER (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>Stanley W. Ward</i> (Signature of Contracting Officer)	16C. DATE SIGNED 7/12/96

NSN 7540-01-152-3070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
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 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	Max Potential Contract Total
Hours: 27,240	80,000
Est. Cost: \$2,318,070	\$5,787,900
Fixed Fee: \$96,150	\$285,400

FUNDING SUMMARY

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

ACCOUNTING AND APPROPRIATION DATA

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

FILES
NAS1-20001
MCD 35

CMB Approval #: 2700-0042

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGES
1 2

2. AMENDMENT/MODIFICATION NO. 35
3. EFFECTIVE DATE 7/12/96
4. REQUISITION/PURCHASE REQ. NO. see below
5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
7. ADMINISTERED BY (If other than Item 6) CODE

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) (x)

Aero Systems Engineering, Inc.
Fluidyne Facilities Group
Attn: Mr. Tom Holt
358 E. Filmore Avenue
St. Paul, MN 55107-1289

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.
NAS1-20001

10B. DATED (SEE ITEM 13)

CODE FACILITY CODE 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
GGK8.1159. \$400,000 (complete); GGK6.1041. \$46,000 (complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

X B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, X is required to sign this document and return 1 copy to the issuing office.

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

The purpose of this modification is to add \$426,000 in cost funding and \$20,000 in fee funding.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding--Task Assignments (LaRC 52.232.111) (JUN 1991). Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
Stanley W. Ward

15B. CONTRACTOR/OFFEROR
15C. DATE SIGNED
15D. UNITED STATES OF AMERICA
BY (Signature of person authorized to sign)
16B. UNITED STATES OF AMERICA
BY (Signature of Contracting Officer)
16C. DATE SIGNED 7/10/96

NSN 75-40-01-152-3070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
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 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	Max Potential Contract Total
Hours: 26,950	80,000
Est. Cost: \$2,279,962	\$5,787,900
Fixed Fee: \$96,150	\$285,400

FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount
Cost \$2,518,416	\$426,000	\$2,944,416
Fee \$108,530	\$20,000	\$128,530
Total \$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

NAS1-20001, 4-34

OMB Approval #: 270-0042

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 34	3. EFFECTIVE DATE 5/29/96	4. REQUISITION/PURCHASE REQ. NO. see below	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Aero Systems Engineering, Inc. Fluidyne Facilities Group Attn: Mr. Tom Holt 358 E. Filmore Avenue St. Paul, MN 55107-1289	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
CCODE	FACILITY CODE	10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
GGH.1601, C-295305, (\$112,350); GKG8.1149, R-19528, \$2,226 (complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, X is required to sign this document and return 1 copy to the issuing office.

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

The purpose of this modification is to de-obligate \$107,000 in cost funding and \$5,350 in fee funding, from PR GGH.1601, and to add \$2,226 in cost funding from PR GKG8.1149, for a net contract cost de-obligation of \$104,774, and a net contract fee de-obligation of \$5,350.

Accordingly, the Contract Schedule of the subject contract, Section B.4, Contract Funding-Task Assignments (LaRC 52.232.111) (JUN 1991), Paragraphs A and B are hereby revised as follows:

CONTINUED ON PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) William T. Holt Project Manager	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward
15B. CONTRACTOR/OFFEROR <i>(Signature)</i>	16B. UNITED STATES OF AMERICA BY <i>(Signature)</i>
15C. DATE SIGNED 6/11/96	16C. DATE SIGNED 5/29/96

NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (Rev. 10-83) Prescribed by GSA 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 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	Max Potential Contract Total
Hours: 26,870	80,000
Est. Cost: \$2,274,047	\$5,787,900
Fixed Fee: \$108,530	\$285,400

FUNDING SUMMARY

Previously Funded	Changed by This Mod	Revised Amount
Cost \$2,623,190	(\$104,774)	\$2,518,416
Fee \$113,880	(\$5,350)	\$108,530
Total \$2,737,070	(\$110,124)	\$2,626,946

ACCOUNTING AND APPROPRIATION DATA

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

NAS1-20001
MOD 33

OMB Approval #: 41J0-0042

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO. 33		3. EFFECTIVE DATE APR 25 1996	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE	7. ADMINISTERED BY (If other than Item 6) CODE			

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)		(x)	9A. AMENDMENT OF SOLICITATION NO.
Aero Systems Engineering, Incorporated 358 E. Fillmore Avenue St. Paul, MN 55107-1289			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
			10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

- (a) By completing Items 8 and 15, and returning _____ copies of the amendment;
- (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
- (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor X is not is required to sign this document and return _____ copies to the issuing office.

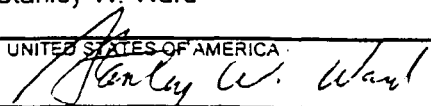
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SUBJECT: Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems

The purpose of this modification is to add \$180,000 in incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule, Section B.4. Contract Funding—Task Assignments (LaRC 52.232-111)(Jun 1991), Paragraph A and B are hereby revised as follows:

CONTINUED PAGE 2

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stanley W. Ward	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED APR 25 1996

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
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 \$2,623,190. 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 funded-through date is 9-30-96.

CONTRACT SUMMARY


<u>Present Value Thru Mod 33</u>	<u>Potential Contract Total</u>
Hours: 28,330 hrs.	80,000 hrs.
Est. Cost: \$2,384,277	\$5,787,900
Fixed Fee: \$ 101,067	\$ 285,400

FUNDING SUMMARY

<u>Previously Funded</u>	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$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>Amount</u> <u>Obligated</u>	<u>Task Ref.</u>
GGK6.1031	C295700	\$100,000 (complete)	19
GGK6.1032	C974900	\$ 80,000 (complete)	18

AMENDMENT OF SOLICITATION MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. <p style="text-align: center;">32</p>	3. EFFECTIVE DATE <p style="text-align: center;">DEC 1995</p>	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. <i>(If applicable)</i>	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY <i>(If other than Item 6)</i>		
9. NAME AND ADDRESS OF CONTRACTOR <i>(No., street, county, State and ZIP Code)</i> Aero Systems Engineering, Incorporated 358 E. Fillmore Avenue St. Paul, MN 55107-1289		(✓)	9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED <i>(SEE ITEM 11)</i>	
		✓	10A. MODIFICATION OF CONTRACT/ORDER NO. <p style="text-align: center;">NAS1-20001</p>	
CODE FACILITY CODE			10B. DATED <i>(SEE ITEM 13)</i> <p style="text-align: center;">4-30-93</p>	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above number solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA <i>(If Required)</i> See Page 2 Accounting and Appropriation Data				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
<input checked="" type="checkbox"/> A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: <i>(Specify Authority)</i> THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.				
<input checked="" type="checkbox"/> B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES <i>(such as changes in paying office, appropriation date, etc)</i> SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <p style="text-align: center;">Mutual Agreement</p>				
D. OTHER <i>(Specify type of modification and authority)</i>				
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION <i>(Organized by UCF section headings, including solicitation/contract subject matter where feasible)</i> SUBJECT: Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems The purpose of this modification is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4. Contract Funding--Task Assignments (LaRC 52.232-111)(JUN 1991) Paragraph A is restated as follows:				
CONTINUED PAGE 2				
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER <i>(Type or Print)</i>		16A. NAME AND TITLE OF CONTRACTING OFFICER <i>(Type or Print)</i> Charlotte T. Hardy		
15B. CONTRACTOR/OFFEROR <i>(Signature of person authorized to sign)</i>		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY  <i>(Signature of Contracting Officer)</i>	16C. DATE SIGNED <p style="text-align: center;">12/15/95</p>

"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

FUNDING SUMMARY

<u>Present Funding</u>	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$2,482,070	\$75,000	\$2,557,070

ACCOUNTING AND APPROPRIATED DATA

<u>P/R</u>	<u>J/O</u>	<u>Amount Obligated</u>	<u>Task Ref.</u>
GGI.1088	C295302	\$45,000 (complete)	13
GGI.1081	R19580	\$30,000 (complete)	16

2. AMENDMENT/MODIFICATION NO. 31	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY (If other than item 6)	

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Incorporated 358 E. Fillmore Avenue St. Paul, MN 55107-1289	<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED (SEE ITEM 11)
	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
CODE	FACILITY CODE
	10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the closing hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
See Page 2 Accounting and Appropriation Data

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input checked="" type="checkbox"/> A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input checked="" type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Mutual Agreement
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return 3 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
SUBJECT: Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems

The purpose of this modification is to deobligate funding. Accordingly, the Contract Schedule is changed as follows: B.4. Contract Funding--Task Assignments (LaRC 52.232-111)(JUN 1991) Paragraph A is restated as follows:

CONTINUED PAGE 2

Exact as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print) William T. Holt Project Manager	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Charlotte T. Hardy
17B. CONTRACTING OFFICER <i>(Signature)</i>	18B. UNITED STATES OF AMERICA BY <i>(Signature)</i>
15C. DATE SIGNED 9/22/95	18C. DATE SIGNED 9/22/95

- "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.

CONTRACT SUMMARY

	<u>Thru Mod 30</u>	<u>Mod 31</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

FUNDING SUMMARY

<u>Present Funding</u>	<u>Decreased by this Mod</u>	<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 Deobligated</u>	<u>Task Ref.</u>
DSA.3257	R17128	(-\$3,778)	2
5673.0503	C293804	(-\$5,657)	3

AMENDMENT OF SOLICITATION		MODIFICATION OF CONTRACT		1. CI	ACT ID CODE	PAGE 1	OF 2	PAGES 2
2. AMENDMENT/MODIFICATION NO 30		3. EFFECTIVE DATE 09/12/1995		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)		
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY (If other than item 6)		CODE				
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Incorporated 358 E. Fillmore Avenue St. Paul, MN 55107-1289				(✓)		9A. AMENDMENT OF SOLICITATION NO.		
						9B. DATED (SEE ITEM 11)		
				✓		10A. MODIFICATION OF CONTRACT/ORDER NO. NASI-20001		
						10B. DATED (SEE ITEM 13) 4-30-93		
CODE		FACILITY CODE		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above number solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.								
12. ACCOUNTING AND APPROPRIATION DATA (If Required) See Page 2 Accounting and Appropriation Data								
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.								
<input checked="" type="checkbox"/> A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.								
<input checked="" type="checkbox"/> B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).								
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:								
D. OTHER (Specify type of modification and authority)								
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4. Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraph A is restated as follows: Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.								
15A. NAME AND TITLE OF SIGNER (Type or Print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Charlotte T. Hardy				
15B. CONTRACTOR/OFFEROR <i>(Signature of person authorized to sign)</i>		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY <i>Charlotte T. Hardy</i> <i>(Signature of Contracting Officer)</i>		16C. DATE SIGNED 9/12/95		

"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.

CONTRACT SUMMARY

	<u>Thru Mod 29</u>	<u>Mod 30</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

FUNDING SUMMARY

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

ACCOUNTING AND APPROPRIATED DATA

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

9/18/95
Advised S. Fauer
Bob Dinkler

2. AMENDMENT/MODIFICATION NO. 29 3. EFFECTIVE DATE 08/24/1995 4. REQUISITION/PURCHASE REC. NO. 5. PROJECT NO. (If applicable)

3. ISSUED BY CODE National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001 7. ADMINISTERED BY (If other than item 6) CODE

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Incorporated 358 E. Fillmore Avenue St. Paul, MN 55107-1289 3A. AMENDMENT OF SOLICITATION NO. 3B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001 10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 3 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required) See Page 2

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

- A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. ITEM 10A.
- B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4. Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraph A is restated as follows:
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 or Print) 15B. CONTRACTOR/OFFEROR Signature of person authorized to sign 15C. DATE SIGNED 15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Charlotte T. Hardy 15B. UNITED STATES OF AMERICA BY ORIGINAL SIGNED BY Signature of Contracting Officer 15C. DATE SIGNED AUG 24 1993

"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

	<u>Thru Mod 28</u>	<u>Mod 29</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

FUNDING SUMMARY

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

ACCOUNTING AND APPROPRIATED DATA

<u>P/R</u>	<u>J/O</u>	<u>Amount</u>	<u>Task Ref.</u>
GGH.1605	C295305	\$ 26,480 (complete)	14, Mod 1
GGH.1606	C295305	112,000 (complete)	13, Mod 2

2. AMENDMENT/MODIFICATION NO. 28	3. EFFECTIVE DATE 07/31/1995	4. REQUISITION/PURCHASE REQ. NO. GGH 1600	5. PROJECT NO. (If applicable)
-------------------------------------	---------------------------------	--	--------------------------------

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	7. ADMINISTERED BY (If other than item 6) CODE
--	---

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Incorporated 358 E. Fillmore Avenue St. Paul, MN 55107-1289	(✓)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	(✓)	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93
CODE		FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
P/R: GGH 1600; J/O: C295306 \$425,000 (Complete) Task No. 15

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

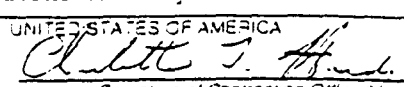
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4. Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraph A is restated as follows:

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print)	15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Charlotte T. Hardy
15B. CONTRACTOR/OFFEROR Signature of person authorized to sign	15C. DATE SIGNED
	15D. UNITED STATES OF AMERICA BY  Signature of Contracting Officer
	15E. DATE SIGNED 7/31/95

"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

	<u>Thru Mod 27</u>	<u>Mod 28</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

FUNDING SUMMARY

<u>Present Funding</u>	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$1,811,025	\$425,000	\$2,236,025

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

1. AMENDMENT/MODIFICATION NO. 27
 2. EFFECTIVE DATE 07/21/1995
 3. REQUISITION/PURCHASE REQ. NO. GGH 1601
 4. PROJECT NO. (If applicable)

5. ISSUED BY CODE
 National Aeronautics and Space Administration
 Langley Research Center
 Hampton, V.A. 23681-0001
 6. ADMINISTERED BY (If other than item 5) CODE

7. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
 Aero Systems Engineering, Incorporated
 358 E. Fillmore Avenue
 St. Paul, MN 55107-1289
 8A. AMENDMENT OF SOLICITATION NO.
 8B. DATED (SEE ITEM 11)
 9A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
 9B. DATED (SEE ITEM 13) 4-30-93

10. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS
 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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
 (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

11. ACCOUNTING AND APPROPRIATION DATA (If Required)
 P/R: GGH 1601; J/O: C295305 \$201,000 (Complete) Task No. 13

12. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.
 A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. ITEM 10A.
 B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
 C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
 D. OTHER (Specify type of modification and authority)

13. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4. Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraph A is restated as follows:
 Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as hereinafter changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print)
 15B. CONTRACTOR/OFFEROR
 Signature of person authorized to sign
 15C. DATE SIGNED
 15D. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print)
 Charlotte T. Hardy
 15E. UNITED STATES OF AMERICA
 BY Charlotte T. Hardy
 Signature of Contracting Officer
 15F. DATE SIGNED
 7/21/95

"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

	<u>Thru Mod 26</u>	<u>Mod 27</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

FUNDING SUMMARY

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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 26	3. EFFECTIVE DATE JUL 11 1995	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Incorporated 358 E. Fillmore Avenue St. Paul, MN 55107-1289		(<input checked="" type="checkbox"/>) 9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)
CODE		FACILITY CODE	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
			10B. DATED (SEE ITEM 13) 4-30-93
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offerors 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 10, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.			
12. ACCOUNTING AND APPROPRIATION DATA (If Required) N/A			
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.			
(<input checked="" type="checkbox"/>)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.		
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).		
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Mutual Agreement		
	D. OTHER (Specify type of modification and authority)		
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return 3 copies to the issuing office.			
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible) SUBJECT: Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems The purpose of this modification is to extend the contract period of performance by two (2) years and revise Clause H.7 entitled Advance Agreement of Indirect Rate(s) (LaRC 52.231-90)(JUN 1988). Therefore, the following changes are made to the contract: Except as provided herein, all terms and conditions of the document referenced in item 2A or 10A, as hereinafter changed, remains unchanged and in full force and effect.			
15A. NAME AND TITLE OF SIGNER (Type or Print) JAMES R. VINKINS ASST. MANAGER, EASTERN OFFICE		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Sandra S. Ray	
15B. CONTRACTOR/OFFEROR <i>James R. Vinkins</i> (Signature of person authorized to sign)	15C. DATE SIGNED JULY 10, 1995	15D. UNITED STATES OF AMERICA BY <i>Sandra S. Ray</i> (Signature of Contracting Officer)	15E. DATE SIGNED 7/11/95

FORM 128-31 (12-88)
PREVIOUS EDITIONS UNUSABLE
NASA - Langley Overprint (DEC 1990)

30-106

STANDARD FORM 10 (Rev 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

FILE COPY

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 [REDACTED] and the ceiling percentage for Overhead is changed to [REDACTED]

C. All other terms and conditions remain unchanged

CONTRACT SUMMARY

	<u>Thru Mod 25</u>	<u>Mod 26</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

FUNDING SUMMARY

<u>Present Funding</u>	<u>Increased by this Mod</u>
\$1,610,025	\$-0-

2. AMENDMENT/MODIFICATION NO 25	3. EFFECTIVE DATE 06/17/1995	4. REQUISITION/PURCHASE REQ. NO. GGH 1585	5. PROJECT NO. (If applicable)
---	--	---	--------------------------------

3. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	7. ADMINISTERED BY (If other than item 3) CODE
---	--

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Incorporated 358 E. Fillmore Avenue St. Paul, MN 55107-1289	(✓)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	(✓)	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
P/R: GGH 1585; J/O: C295305 \$100,000 (Complete) Task No. 14

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

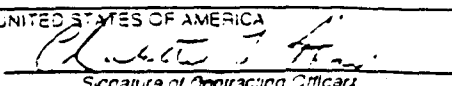
- A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
- B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4. Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraph A is restated as follows:

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 or Print) 	15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Charlotte T. Hardy
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
	15B. UNITED STATES OF AMERICA BY  Signature of Contracting Officer
	15C. DATE SIGNED 6/19/95

"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>Thru Mod 24</u>	<u>Mod 25</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

FUNDING SUMMARY

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

2. AMENDMENT/MODIFICATION NO. 24 3. EFFECTIVE DATE 05/23/1995 4. REQUISITION/PURCHASE REQ. NO. GGH 1583 5. PROJECT NO. (If applicable)

5. ISSUED BY CODE National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001 7. ADMINISTERED BY (If other than item 5) CODE

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Incorporated 358 E. Fillmore Avenue St. Paul, MN 55107-1289 3A. AMENDMENT OF SOLICITATION NO. 3B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001 10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS
 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. Offer 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 3 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
 (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

*2. ACCOUNTING AND APPROPRIATION DATA (If Required) P/R: GGH 1583; J/O: C295305 \$100,000 (Complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
 B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriate date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
 C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
 D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return copies to the issuing office.

*4. 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4. Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraph A is restated as follows:
 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.

*3A. NAME AND TITLE OF SIGNER (Type or Print) *3B. CONTRACTOR/OFFICER *3C. DATE SIGNED *3A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Charlotte T. Hardy *3E. DATE SIGNED 5/23/95

- "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

	<u>Thru Mod 22</u>	<u>Mod 24</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

FUNDING SUMMARY

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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1 CONTRACT ID CODE _____ PAGE _____ OF _____ PAGES _____

2 AMENDMENT/MODIFICATION NO **23** 3. EFFECTIVE DATE **03/27/1995** 4 REQUISITION/PURCHASE REQ NO _____ 5 PROJECT NO. (If applicable) _____

6 ISSUED BY _____ CODE _____ 7 ADMINISTERED BY (If other than item 3) _____ CODE _____
 National Aeronautics and Space Administration
 Langley Research Center
 Hampton, VA 23681-0001

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) 9A. AMENDMENT OF SOLICITATION NO _____
 Aero Systems Engineering Inc.
 358 E. Fillmore Avenue
 St. Paul, MN 55107-1289 9B. DATED (SEE ITEM 11) _____
 10A. MODIFICATION OF CONTRACT/ORDER NO. **NAS1-20001**
 10B. DATED (SEE ITEM 13) **4-30-93**
 CODE _____ FACILITY CODE _____

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS
 The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
 (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
 P/R: GGH.1569; JO: C295302 \$100,000 (Complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

- () A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
- B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraph A is restated as follows:

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 or Print) _____ 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) **Charlotte T. Hardy**
 15B. CONTRACTOR/OFFEROR _____ 15C. DATE SIGNED _____ 16B. UNITED STATES OF AMERICA BY *Charlotte T. Hardy* 16C. DATE SIGNED **3/27/95**
 Signature of person authorized to sign _____ 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 \$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.

CONTRACT SUMMARY

	<u>Thru Mod 22</u>	<u>Mod 23</u>	<u>Total</u>
Hours:	80,000 hrs.	0	80,000 hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

FUNDING SUMMARY

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

2. AMENDMENT/MODIFICATION NO. 22	3. EFFECTIVE DATE 03/20/1995	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
--	--	----------------------------------	--------------------------------

6. ISSUED BY CODE National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	7. ADMINISTERED BY (If other than Item 6) CODE
--	---

9. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering Inc. 358 E. Fillmore Avenue St. Paul, MN 55107-1289	(✓)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	(✓)	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
P/R: GGH.1566; JO: C295302 \$200,000 (Complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS,

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
(✓)	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraph A is restated as follows:

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print) 15B. CONTRACTOR/OFFEROR <i>(Signature of person authorized to sign)</i>	15C. DATE SIGNED	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Charlotte T. Hardy	16B. UNITED STATES OF AMERICA BY <i>Charlotte T. Hardy</i> <i>(Signature of Contracting Officer)</i>	16C. DATE SIGNED 3/20/95
---	------------------	--	---	------------------------------------

"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.

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.

CONTRACT SUMMARY

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

FUNDING SUMMARY

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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. AMENDMENT/MODIFICATION NO. 21
 3. EFFECTIVE DATE JAN 27 1995
 4. REQUISITION/PURCHASE REQ. NO.
 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
 National Aeronautics and Space Administration
 Langley Research Center
 Hampton, V.A. 23681-0001
 7. ADMINISTERED BY (If other than item 6) CODE

9. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
 Aero Systems Engineering Inc.
 358 E. Fillmore Avenue
 St. Paul, MN 55107-1239
 9A. AMENDMENT OF SOLICITATION NO.
 9B. DATED (SEE ITEM 11)
 10A. MODIFICATION OF CONTRACT/ORDER NO.
 NAS1-20001
 10B. DATED (SEE ITEM 13)
 4-30-93
 CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS
 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 9 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
 (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
 P/R: GGH.1552; JO: R19527; \$33,045 (Complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

(✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.

✓ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-111 (JUN 1991) Paragraph A is restated as follows:
 Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print)
 15B. CONTRACTOR/OFFEROR
 Signature of person authorized to sign
 15C. DATE SIGNED
 15D. UNITED STATES OF AMERICA
 BY Charlotte T. Hardy
 Signature of Contracting Officer
 15E. DATE SIGNED
 1/27/95

FILE COPY

"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.

CONTRACT SUMMARY

<u>Thru Mod 20</u>	<u>Mod 21</u>	<u>Total</u>
Hours: 80,000 hrs.	0	80,000 hrs.
Est. Cost: \$5,787,900	0	\$5,787,900
Fixed Fee: \$ 285,400	0	\$ 285,400

FUNDING SUMMARY

<u>Present Funding</u>	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$1,076,980	\$33,045	\$1,110,025

2. AMENDMENT/MODIFICATION NO. 20 3. EFFECTIVE DATE 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001 7. ADMINISTERED BY (If other than Item 6) CODE

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering Inc. 358 E. Fillmore Avenue St. Paul, MN 55107-1289 9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001 10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS
 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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required) Deobligate: \$19,220 See Page 2

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

(/) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
 B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
 C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Mutual Agreement
 D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return 3 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
 SUBJECT: Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems
 The purpose of this modification is to deobligate funding. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraphs A and B are deleted and restated as follows:
 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 or Print) 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 15D. UNITED STATES OF AMERICA BY 15E. DATE SIGNED
 Charlotte T. Hardy
 Signature of person authorized to sign 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 \$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

	<u>Thru Mod 19</u>	<u>Mod 20</u>	<u>Total</u>
Hours:	80,000 hrs.	0	80,000 hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee: \$	285,400	0	\$ 285,400

FUNDING SUMMARY

<u>Present Funding</u>	<u>Decreased by this Mod</u>	<u>Revised Amount</u>
\$1,096,200	(-\$19,220)	\$1,076,980

ACCOUNTING SUMMARY

<u>Purchase Request</u>	<u>J/O</u>	<u>Amount Deobligated</u>
GGCC.1018	R14459	(-\$10,743)
DCB.2471	R18309	(-1,811)
GGCC.1013	R14459	(-6,666)

1
AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

TRACT ID CODE

PAGE OF PAGES
 1 OF 2

2. AMENDMENT/MODIFICATION NO. 19	3. EFFECTIVE DATE 09/22/1994	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
-------------------------------------	---------------------------------	----------------------------------	--------------------------------

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	7. ADMINISTERED BY (If other than Item 6)
--	---

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering Inc. 358 E. Fillmore Avenue St. Paul, MN 55107-1289	(√)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	✓	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
 (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
 PR: 5673.1091; JO: C294105; Deobligate: \$80,000 (Complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

(√)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
✓	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Mutual Agreement
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return 3 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
 SUBJECT: Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems

The purpose of this modification is to deobligate funding. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraphs A and B are deleted and restated as follows:

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Charlotte T. Hardy
15B. CONTRACTOR/OFFICER _____ (Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)
15C. DATE SIGNED	16C. DATE SIGNED

- 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

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

FUNDING SUMMARY

<u>Present Funding</u>	<u>Decreased by this Mod</u>	<u>Revised Amount</u>
\$1,176,200	\$80,000	\$1,096,200

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

CONTRACT NUMBER: _____ PAGE OF PAGES: _____

2. AMENDMENT/MODIFICATION NO. 13 | 3. EFFECTIVE DATE 09/22/1994 | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable)

6. ISSUED BY COCE [] | 7. ADMINISTERED BY (If other than item 5) COCE []
 National Aeronautics and Space Administration
 Langley Research Center
 Hampton, VA 23681-0001

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
 Aero Systems Engineering Inc.
 358 E. Fillmore Avenue
 St. Paul, MN 55107-1289

9A. AMENDMENT OF SOLICITATION NO. []
 9B. DATED (SEE ITEM 11) []

10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
 10B. DATED (SEE ITEM 13) 4-30-93

COCE | FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
 (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
 PR: DSA.3257; JO: R17123 \$11,800 (Complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

- A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
- B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-111 (JUN 1991) Paragraphs A and B are deleted and restated as follows:

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as herebefore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print) | 15B. CONTRACTOR OFFICER | 15C. DATE SIGNED | 15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) | 15B. UNITED STATES OF AMERICA | 15C. DATE SIGNED

Signature of person authorized to sign | 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 \$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.

.....

CONTRACT SUMMARY

	<u>Thru Mod 17</u>	<u>Mod 18</u>	<u>Total</u>
Hours:	80,000 hrs.	0	80,000 hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

FUNDING SUMMARY

<u>Present Funding</u>	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$1,164,400	\$11,800	\$1,176,200

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE 1 OF 2 PAGES 2

2. AMENDMENT/MODIFICATION NO. 17 3. EFFECTIVE DATE 08/25/1994 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001 7. ADMINISTERED BY (If other than item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Inc. 358 E. Fillmore Avenue St. Paul, MN 55107-1289 9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001 10B. DATED (SEE ITEM 13) 4-30-93

CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required) GGD.1031; JO: C295401; \$175,000 (Complete); GGH.1506, JO: C295401; \$25,000 (Complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-111) (JUN 1991) Paragraphs A and B are deleted and restated as follows: Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print) 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 15D. UNITED STATES OF AMERICA BY 15E. SIGNATURE OF CONTRACTING OFFICER 15F. DATE SIGNED

- 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.
- 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.

CONTRACT SUMMARY

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

FUNDING SUMMARY

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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

TRACT ID CODE

PAGE OF PAGES

1 2

2. AMENDMENT/MODIFICATION NO. 16	3. EFFECTIVE DATE AUG 4 - 1994	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
-------------------------------------	-----------------------------------	----------------------------------	--------------------------------

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	CCOE	7. ADMINISTERED BY (If other than item 6) CCOE
--	------	---

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering Inc. 358 E. Fillmore Avenue St. Paul, MN 55107-1289	(✓)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	(✓)	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93
CCOE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
GGD.1029; J.O. C295302; \$135,000 (Complete) - GGH.1503; J.O. C295302; \$40,000 (Complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

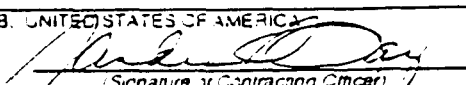
(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
(✓)	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to add incremental funding pursuant to the contract funding clause of the contract. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-11: (JUN 1991) Paragraphs A and B are deleted and restated as follows:

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as herebefore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print)	15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Sandra S. Ray
15B. CONTRACTOR/OFFEROR Signature of person authorized to sign	15C. DATE SIGNED
15D. UNITED STATES OF AMERICA BY  Signature of Contracting Officer	15E. DATE SIGNED 8/2/94

- 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.

CONTRACT SUMMARY

	<u>Thru Mod 15</u>	<u>Mod 16</u>	<u>Total</u>
Hours:	80,000 hrs.	0	80,000 hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

FUNDING SUMMARY

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

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO. 15	3. EFFECTIVE DATE AUG 1 - 1994	4. REQUISITION/PURCHASE REQ. NO. N/A	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY (If other than item 6) CODE	

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Inc. 358 E. Fillmore Avenue St. Paul, MN 55107-1289	(✓)	8A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	(✓)	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
CODE	FACILITY CODE	10B. DATED (SEE ITEM 13) 4/30/94

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 16, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
 (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

(1)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (Such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 48.103(b).
(✓)	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Mutual Agreement
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return 1 copies to the issuing office.

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

The purpose of this modification is to revise the reporting period for Reports of Government-owned/Contractor-Held Property and to revise Clause H.10 entitled "Government-Furnished Items." Accordingly, the following changes are made to the Contract Schedule:

(CONTINUED ON ATTACHED PAGE)

Except as provided herein, all terms and conditions of the document referenced in item 8A or 10A, as heretofore changed, remains unchanged and in full force and effect.

16A. NAME AND TITLE OF SIGNER (Type or Print) JAMES R. DINKINS ASST MGR EASTERN OFFICE	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) Sandra S. Ray
16B. CONTRACTOR OFFEROR <i>James R. Dinkins</i>	16C. DATE SIGNED 7/29/94
16D. UNITED STATES OF AMERICA <i>Sandra S. Ray</i>	16E. DATE SIGNED 8/1/94

NSA 48-01-11-0170
PREVIOUS EDITIONS UNUSABLE
NASA - Langley Overprint (DEC 1988)

20-108

STANDARD FORM 96 (Rev 10-81)
Prescribed by GSA
FAR (48 CFR) 1.01-24

FILE COPY

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.

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.

CONTRACT SUMMARY

	<u>Thru Mod 13</u>	<u>Mod 14</u>	<u>Total</u>
Hours:	80,000 hrs.	0	80,000 hrs.
Est. Cost:	\$5,787,900	0	\$5,787,900
Fixed Fee:	\$ 285,400	0	\$ 285,400

FUNDING SUMMARY

<u>Present Funding</u>	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$747,400	\$42,000	\$789,400

2. AMENDMENT/MODIFICATION NO. 13	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
--	-------------------	----------------------------------	--------------------------------

6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001	7. ADMINISTERED BY (If other than Item 6)
---	---

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Inc. 358 E. Fillmore Ave. St. Paul, MN 55107-1289	(✓)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	(✓)	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
PR: DSA.3160 Deobligate: \$12,550 JO: R14293/PR: DSA .3166 \$9,350 (Complete) JO: R14293

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

(✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X MUTUAL AGREEMENT

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return 3 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
SUBJECT: Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems

The purpose of this modification is to delete incremental funding pursuant to the clause 52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-111)(JUN 1991) Paragraphs A and B are deleted and restated as:

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print) JAMES R. DINNIN ASS'T CONT. MGR.	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) RICHARD C. SHISLER
15B. CONTRACTOR/OFFEROR <i>James R. Dinnin</i> (Signature of person authorized to sign)	15C. DATE SIGNED 8/9/94
16B. UNITED STATES OF AMERICA BY <i>[Signature]</i> (Signature of Contracting Officer)	16C. DATE SIGNED 6-9-94

- 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>	<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

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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 12	3. EFFECTIVE DATE JUN 01 1994	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY (If other than Item 6)			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Inc. 358 E. Fillmore Ave. St. Paul, MN 55107-1289				(√)	9A. AMENDMENT OF SOLICITATION NO.
					9B. DATED (SEE ITEM 11)
				(√)	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
CODE					10B. DATED (SEE ITEM 13) 4-30-93
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above number solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If Required) PR: DSA.3160 \$12,550(Complete) JO: R14293/PR: GGCC.1017 \$138,600 (Complete) JO: R14459					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.					
(√)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.				
(√)	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
	D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies 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 is to provide incremental funding pursuant to the clause 52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-111)(JUN 1991) Paragraphs A and B are deleted and restated as: Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or Print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print)		
			RICHARD C. SHISLER		
15B. CONTRACTOR/OFFICER		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
(Signature of person authorized to sign)			BY		6-1-94
			(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, \$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.

CONTRACT SUMMARY

	<u>Thru Mod 11</u>	<u>Mod 12</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

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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE 1 OF 2 PAGES
2. AMENDMENT/MODIFICATION NO. 11	3. EFFECTIVE DATE MAY 23 1994	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)		
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		7. ADMINISTERED BY (If other than Item 6) CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Inc. 358 E. Fillmore Ave. St. Paul, MN 55107-1289				(✓)	9A. AMENDMENT OF SOLICITATION NO.
					9B. DATED (SEE ITEM 11)
				✓	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
CODE		FACILITY CODE		10B. DATED (SEE ITEM 13) 4-30-93	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above number solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If Required) PR: DCB.2474 \$15,750 (Complete) JO: R18309					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.					
(✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.					
✓ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies 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 is to provide incremental funding pursuant to the clause 52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2. Accordingly, the Contract Schedule is changed as follows: B.4 Contract Funding--Task Assignments (LaRC 52.232-111)(JUN 1991) Paragraphs A and B are deleted and restated as: Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or Print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) RICHARD C. SHUSLER		
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)		16C. DATE SIGNED 5-23-94

- 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

<u>Present Funding</u>	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$583,700	\$15,750	\$599,450

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 2					
2. AMENDMENT/MODIFICATION NO. 10		3. EFFECTIVE DATE MAY 23 1994		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)					
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001				7. ADMINISTERED BY (If other than Item 6)							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Inc. 358 E. Fillmore Ave. St. Paul, MN 55107-1289				(✓)				9A. AMENDMENT OF SOLICITATION NO.			
				(✓)				9B. DATED (SEE ITEM 11)			
				(✓)				10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001			
				(✓)				10B. DATED (SEE ITEM 13) 4-30-93			
CODE		FACILITY CODE									
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS											
<input type="checkbox"/> The above number solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.											
12. ACCOUNTING AND APPROPRIATION DATA (If Required) N/A											
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.											
<input checked="" type="checkbox"/> A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.											
<input checked="" type="checkbox"/> B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).											
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:											
D. OTHER (Specify type of modification and authority)											
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies 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 1. The purpose of this modification is to correct the accounting and appropriation data as set forth in block 12 of Modification No. 8. Therefore, the following change is made to the contract:											
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.											
15A. NAME AND TITLE OF SIGNER (Type or Print)				15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print)							
				RICHARD C. SHISLER							
15B. CONTRACTOR/OFFICER		15C. DATE SIGNED		15B. UNITED STATES OF AMERICA		15C. DATE SIGNED					
Signature of person authorized to sign				BY		5-23-94					
				Signature of Contracting Officer							

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

	<u>Thru Mod 9</u>	<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

2. AMENDMENT/MODIFICATION NO. 9 3. EFFECTIVE DATE MAY 12 1994 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001 7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Aero Systems Engineering, Inc. 358 E. Fillmore Ave. St. Paul, MN 55107-1289 9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001 10B. DATED (SEE ITEM 13) 4-30-93

CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required) PR: GGCC.1013 \$12,600(Complete) JO: R14459

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.

- (/) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
- ✓ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return ___ copies 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 is to provide incremental funding pursuant to the clause 52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2. Accordingly, the Contract Schedule is changed as follows:
 B.1 Contract Funding--Task Assignments (LaRC 52.232-111)(JUN 1991) Paragraphs A and B are deleted and restated as
 Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print) 15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) RICHARD C. SHISLER

15B. CONTRACTOR/OFFICER 15C. DATE SIGNED 15B. UNITED STATES OF AMERICA 15C. DATE SIGNED BY [Signature] [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 \$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.

CONTRACT SUMMARY

	<u>Thru Mod 8</u>	<u>Mod 9</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

<u>Present Funding</u>	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$571,100	\$12,600	\$583,700

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE _____ PAGE 1 OF 2 PAGES 2

2. AMENDMENT/MODIFICATION NO. **8** 3. EFFECTIVE DATE _____ 4. REQUISITION/PURCHASE REQ. NO. _____ 5. PROJECT NO. (If applicable) _____

6. ISSUED BY CODE _____ 7. ADMINISTERED BY (If other than Item 6) CODE _____

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) 9A. AMENDMENT OF SOLICITATION NO. _____

Acro Systems Engineering, Inc.
358 E. Fillmore Ave.
St. Paul, MN 55107-1289

9B. DATED (SEE ITEM 11) _____

10A. MODIFICATION OF CONTRACT/ORDER NO. **NAS1-20001**

10B. DATED (SEE ITEM 13) **4-30-93**

CODE _____ FACILITY CODE _____

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
PR: DCB .2471 \$12,600(Complete) JO: R18309 and PR: GGCC.1010 \$10,500(Complete) JO: R14459

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) _____ THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: _____

D. OTHER (Specify type of modification and authority) _____

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies 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 is to provide incremental funding pursuant to the clause 52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2. Accordingly, the Contract Schedule is changed as follows:
B.4 Contract Funding--Task Assignments (LaRC 52.232-111)(JUN 1991) Paragraphs A and B are deleted and restated as follows:

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 or Print) _____ 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) **RICHARD C. SHISLER**

15B. CONTRACTOR/OFFEROR _____ 15C. DATE SIGNED _____ 16B. UNITED STATES OF AMERICA BY _____ 16C. DATE SIGNED **5-1-93**

(Signature of person authorized to sign) _____ (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 \$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

	<u>Thru Mod 7</u>	<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

FUNDING SUMMARY

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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE PAGE OF PAGES
1 2

2. AMENDMENT/MODIFICATION NO. 7
3. EFFECTIVE DATE APR 06 1993
4. REQUISITION/PURCHASE REQ. NO.
5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001
7. ADMINISTERED BY (If other than item 6) CODE

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
Aero Systems Engineering, Inc.
358 E. Fillmore Ave.
St. Paul, MN 55107-1289
9A. AMENDMENT OF SOLICITATION NO.
9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT/ORDER NO.
NAS1-20001
10B. DATED (SEE ITEM 13)
4-30-93
CCODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS
 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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
 B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
 C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
 D. OTHER (Specify type of modification and authority)
Novation Agreement executed in accordance with FAR 42.12

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
The purpose of this modification is to recognize the novation of this contract. Aero Systems Engineering, Inc. has assumed the obligation of full and complete performance of this contract pursuant to the contract's terms and conditions. Accordingly, the Contractor's name and address are changed to:
Aero Systems Engineering, Inc.
358 E. Fillmore Ave.
St. Paul, MN 55107-1289

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as herebefore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print)
JAMES R. DIXON ASST. MANAGER OFFICE
15B. CONTRACTOR/OFFICER
Signature of person authorized to sign
15C. DATE SIGNED
4/6/93
15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print)
RICHARD C. SHISLER
15B. UNITED STATES OF AMERICA
BY
Signature of Contracting Officer

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

CONTRACT SUMMARY

	<u>Thru Mod 6</u>	<u>Mod 7</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

Attachment

NOVATION AGREEMENT

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) 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.

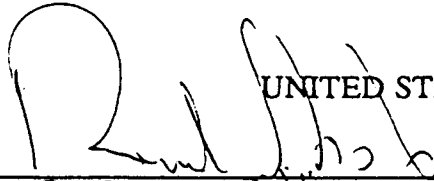
5) Except as expressly provided in this Agreement, nothing in it shall be construed as a waiver of any rights of the Government against the Transferor.

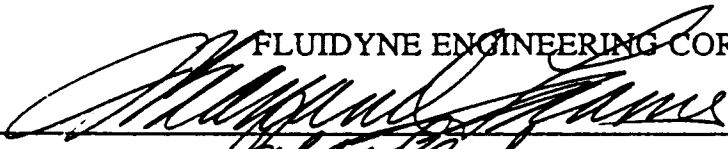
6) All payments and reimbursements previously made by the Government to the Transferor, and all other previous actions taken by the Government under the contracts, shall be considered to have discharged those parts of the Government's obligations under the contracts. All payments and reimbursements made 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.

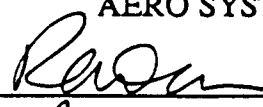
8) The Transferor guarantees payment of all liabilities and the performance of all obligations that the transferee (i) assumes under this Agreement or (ii) may undertake in the future should these contracts be modified under their terms and conditions. The Transferor waives notice of, and consents to,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


FLUIDYNE ENGINEERING CORPORATION
By: _____
Title: President

CORPORATE SEAL:

AERO SYSTEMS ENGINEERING, INCORPORATED

By: _____
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 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 1 December 1993.

By 

CORPORATE SEAL:

Certification

I, Mark St. Michel, certify that I am the Secretary of AERO SYSTEMS ENGINEERING, INCORPORATED; that Robert A. Davis, who signed this Agreement for this corporation, was then President & CEO 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 1 December 1993.

By 

CORPORATE SEAL:

EXHIBIT A

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

Contract No. NAS1-20001

- 2) 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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE PAGE OF PAGES
1 2

2. AMENDMENT/MODIFICATION NO. **6** 3. EFFECTIVE DATE 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001 7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) **FluiDyne Engineering Corporation
5900 Olson Memorial Highway
Minneapolis, MN 55422-4997** (✓) 9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. **NAS1-20001** (✓) 10B. DATED (SEE ITEM 13) **4-30-93**

CCODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
PR: DSA.3092 \$11,500(Complete) JO: R17136

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

- (✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
- ✓ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
SUBJECT: NASA Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems
The purpose of this modification is to provide incremental funding pursuant to the clause 52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2. Accordingly, the Contract Schedule is changed as follows:
B.4 Contract Funding--Task Assignments (LaRC 52.232-111)(JUN 1991) Paragraphs A and B are deleted and restated as follows:

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as herebefore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print) 15B. CONTRACTOR/OFFICER 15C. DATE SIGNED 15D. UNITED STATES OF AMERICA BY 15E. DATE SIGNED
15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) **RICHARD C. SHISLER**
Signature of person authorized to sign 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 \$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.

CONTRACT SUMMARY

	<u>Thru Mod 5</u>	<u>Mod 6</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

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

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT (CONTRACT ID CODE PAGE OF PAGES
1 2

2. AMENDMENT/MODIFICATION NO. 5 3. EFFECTIVE DATE MAR 04 1994 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23681-0001 7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) (✓) 9A. AMENDMENT OF SOLICITATION NO.
FluiDyne Engineering Corporation 99B. DATED (SEE ITEM 11)
5900 Olson Memorial Highway
Minneapolis, MN 55422-4997 10A. MODIFICATION OF CONTRACT/ORDER NO.
NAS1-20001
10B. DATED (SEE ITEM 13)
4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
PR: 5673.1091 \$80,000(complete) JO: C294105

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

- (✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
- ✓ B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
SUBJECT: NASA Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems.
The purpose of this modification is to provide incremental funding pursuant to the clause 52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2. Accordingly, the Contract Schedule is changed as follows:
B.4 Contract Funding--Task Assignments (LuRC 52.232-111)(JUN 1991) Paragraphs A and B are deleted and restated as follows:
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as herebefore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print) 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) RICHARD C. SHISLER, BY 15B. UNITED STATES OF AMERICA 15C. DATE SIGNED 3-16-94

- 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

	<u>Thur Mod 4</u>	<u>Mod 5</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

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

2. AMENDMENT/MODIFICATION NO. 4
 3. EFFECTIVE DATE JUL 29 1993
 4. REQUISITION/PURCHASE REQ. NO.
 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
 National Aeronautics and Space Administration
 Langley Research Center
 Hampton, VA 23665-5225
 7. ADMINISTERED BY (If other than Item 6) CODE

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
 FluidDyne Engineering Corporation
 5900 Olson Memorial Highway
 Minneapolis, MN 55422-4997
 3A. AMENDMENT OF SOLICITATION NO.
 3B. DATED (SEE ITEM 11)
 10A. MODIFICATION OF CONTRACT/ORDER NO.
 NAS1-20001
 10B. DATED (SEE ITEM 13)
 4-30-93
 CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS
 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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
 (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
 PR: 2130.2878 \$120,500(Complete) JO: R14293, R17128, R17953

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.
 A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
 B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
 C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
 D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
 SUBJECT: NASA Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility
 Automation Systems
 The purpose of this modification is to provide incremental funding pursuant to the clause 52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2. Accordingly, the Contract Schedule is changed as follows:
 B.4 Contract Funding--Task Assignments (LaRC 52.232-111)(JUN 1991) Paragraphs A and B are deleted and restated as follows:

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 or Print)
 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print)
 RICHARD C. SHISLER
 15B. CONTRACTOR/OFFEROR
 Signature of person authorized to sign
 15C. DATE SIGNED
 16B. UNITED STATES OF AMERICA
 BY
 Signature of Contracting Officer
 15C. DATE SIGNED
 7-29-93

FILE COPY

- 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>	<u>Mod 4</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

<u>Present Funding</u>	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$336,000	\$120,500	\$456,500

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

CONTRACT D CODE

PAGE 1 OF 2 PAGES

2. AMENDMENT/MODIFICATION NO. 3	3. EFFECTIVE DATE JUL 09 1993	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23665-5225		7. ADMINISTERED BY (If other than item 6)	

3. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Fluidyne Engineering Corporation 5900 Olson Memorial Highway Minneapolis, MN 55422-4997	<input checked="" type="checkbox"/>	3A. AMENDMENT OF SOLICITATION NO.
		3B. DATED (SEE ITEM 11)
	<input checked="" type="checkbox"/>	10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1-20001
		10B. DATED (SEE ITEM 13) 4-30-93
CCDE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
PR: 5673.0503 \$250,000(Complete) JO: C293804

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input checked="" type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
<input checked="" type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
SUBJECT: NASA Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems

The purpose of this modification is to provide incremental funding pursuant to the clause 52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2. Accordingly, the Contract Schedule is changed as follows:

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

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 or Print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) RICHARD C. SHISLER
15B. CONTRACTOR/OFFEROR Signature of person authorized to sign	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY Signature of Contracting Officer	16C. DATE SIGNED 7-2-93

- 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

	<u>Thru Mod 2</u>	<u>Mod 3</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

<u>Present Funding</u>	<u>Increased by this Mod</u>	<u>Revised Amount</u>
\$86,000	\$250,000	\$336,000

2. AMENDMENT/MODIFICATION NO. 3. EFFECTIVE DATE 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)

2 JUN 23 1997

6. ISSUED BY CODE 7. ADMINISTERED BY (If other than item 6) CODE

National Aeronautics and Space Administration
Langley Research Center
Hampton, VA 23665-5225

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) 9A. AMENDMENT OF SOLICITATION NO.

Fluidyne Engineering Corporation
5900 Olson Memorial Highway
Minneapolis, MN 55422-4997

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT ORDER NO. NAS1-20001

10B. DATED (SEE ITEM 13) 4-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation or date) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
SUBJECT: NASA Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems

The purpose of this modification is to make administrative corrections. Therefore, the following changes are made to the contract:

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print)
BLANCHE H. FOUT

15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 16B. UNITED STATES OF AMERICA BY *[Signature]* 16C. DATE SIGNED 6/25/93

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 seq.).

(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. 632) 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.

(6) "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

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 than 60 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

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 in 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.

(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.

(h) **Reporting on utilization of subject inventions.** The Contractor agrees to 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--

(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.)

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

2. AMENDMENT/MODIFICATION NO. 1
 3. EFFECTIVE DATE JUN 04 1993
 4. REQUISITION/PURCHASE REQ. NO.
 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE
 7. ADMINISTERED BY (If other than item 6) CODE
 National Aeronautics and Space Administration
 Langley Research Center
 Hampton, VA 23665-5225

8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State and ZIP Code)
 Fluidyne Engineering Corporation
 5900 Olson Memorial Highway
 Minneapolis, MN 55422-4997
 9A. AMENDMENT OF SOLICITATION NO.
 9B. DATED (SEE ITEM 11)
 10A. MODIFICATION OF CONTRACT ORDER NO.
 NAS1-20001
 10B. DATED (SEE ITEM 11) 6-30-93

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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 amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or
 (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If Required)
 PR: 2130.2849 \$6,000 JO: R17128 (Complete)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
 B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
 C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
 D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
 SUBJECT: NASA Contract NAS1-20001; Engineering Design, Development, Installation and Testing of Facility Automation Systems
 The purpose of this modification is to provide incremental funding pursuant to the clause 52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2. Accordingly, the Contract Schedule is changed as follows:
 B.4 Contract Funding--Task Assignments (LaRC 52.232-111)(JUN 1991) Paragraphs A and B are deleted and restated as follows:
 Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print)
 15B. CONTRACTOR/OFFEROR
 15C. DATE SIGNED
 15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print)
 BLANCHE H. FOUT
 15B. UNITED STATES OF AMERICA
 15C. DATE SIGNED

1. 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 Section I - Contract Clauses 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	0
Total Cost and Fee	<u>\$6,073,300</u>

Attachment