

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 1 February 1999	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE N00173		7. ADMINISTERED BY (If other than Item 6) CODE			
CONTRACTING OFFICER NAVAL RESEARCH LABORATORY ATTN: CODE 3230-MM WASHINGTON DC 20375-5326					

8. NAME AND ADDRESS OF CONTRACTOR (No., street, country, State and ZIP Code)		<input checked="" type="checkbox"/>	9A. AMENDMENT OF SOLICITATION NO. N00173-98-R-CB04
TO ALL OFFERORS			9B. DATED (SEE ITEM 11) 19 January 1999
			10A. MODIFICATION OF CONTRACT/ORDER NO.
			10B. DATED (SEE ITEM 13)
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 tended. 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 2 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer x 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 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.

<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).
	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.)

Any Questions Concerning This Amendment Should be Directed To:
 Marita F. Thompson, Code 3230.MM, (202) 767-0666
 See Next Page

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 _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED

The purpose of this amendment is to incorporate Exhibit A – DD Form 1423,
Contract Data Requirements:

1. SECTION J, LIST OF ATTACHMENTS, J-1 revised to include the following:

**J-1 Contract Data Requirements - 13 Pages And Enclosure (1) -
Instructions For Distribution - 1 Page.**

2. All other terms and conditions remain unchanged.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY:	
		A		X	
D. SYSTEM / ITEM			E. CONTRACT / PR NO.		F. CONTRACTOR
One-Meter Telescope			N/A		RFP No.: N00173-98-R-CB04
1. DATA ITEM NO.	2. TITLE OF DATA ITEM			3. SUBTITLE	
A004	Test/Inspection Report			See 16	
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE		6. REQUIRING OFFICE
N/A			Statement of Work		Naval Research Laboratory
7. DD 250 REQ	8. DIST STATEMENT REQUIRED	10. FREQUENCY		12. DATE OF FIRST SUBMISSION	
N/A		See 16		See 16	
8. APP CODE		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION	
N/A	N/A	See 16		See 16	
14. DISTRIBUTION					
a. ADDRESSEE			b. COPIES		
			Draft	Final	
			Draft	Reg	Repr
10. REMARKS					
The Contractor shall provide the following Test/Inspection Reports in accordance with the following: (Reference SOW Paragraphs: 3.1.5, 3.2.2, 3.2.4, 3.2.6, 3.2.7, 3.2.7.1, 3.3.0.1, 3.3.2, 3.3.3, 3.3.4, 3.3.5, 3.3.6, 3.3.9, 3.3.10.2, 3.4.1.7, 3.4.2.2, 3.5.7, 3.7.3, 5.1, 5.2, and 7.1)					
12. Test/Inspection Report, Subtitled: Test/inspection report on beam path conditioning. Deliver at FAT.					
13. Test/Inspection Report, Subtitled: Test/inspection report on encoder jitter tests. Deliver at FAT					
14. Test/Inspection Report, Subtitled: Test/inspection report on gimbal system braking system. Deliver at FAT.					
15. Test/Inspection Report, Subtitled: Test/inspection report on mechanical description. Deliver at FAT.					
16. Test/Inspection Report, Subtitled: Test/inspection report on mirror coatings. Deliver at FAT.					
17. Test/Inspection Report, Subtitled: Test/inspection report on the non-COTS and COTS digital gimbal electronics performance. Deliver at FAT.					
18. Test/Inspection Report, Subtitled: Tests/inspection report of control function performance. Deliver draft at CDR and final at FAT.					
19. Test/Inspection Report, Subtitled: Tests/inspection report of control system S/W performance. Deliver draft at CDR and final at FAT.					
20. Test/Inspection Report, Subtitled: Test/inspection report for Telescope Acceptance Testing. Deliver at CDR.					
21. Test/Inspection Report, Subtitled: Test/inspection report on telescope workmanship. Deliver at FAT.					
15. TOTAL → 2 10 20					
G. PREPARED BY			H. DATE	I. APPROVED BY	
				<i>[Signature]</i>	
				1/29/99	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY:	
		A		X	
D. SYSTEM / ITEM			E. CONTRACT / PR NO.		F. CONTRACTOR
One-Meter Telescope			N/A		RFP No.: N00173-98-R-CB04
1. DATA ITEM NO.	2. TITLE OF DATA ITEM			3. SUBTITLE	
A005	Technical Report-Study/Service			See 16	
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE		6. REQUIRING OFFICE
N/A			Statement of Work		Naval Research Laboratory
7. DD 250 REQ	8. DIST STATEMENT REQUIRED	10. FREQUENCY		12. DATE OF FIRST SUBMISSION	
N/A		See 16		See 16	
8. APP CODE	9. DIST STATEMENT REQUIRED	11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION	
N/A	N/A	See 16		See 16	
14. DISTRIBUTION					
a. ADDRESSEE			b. COPIES		
			Draft	Final	
	Reg	Repro			
15. REMARKS					
<p>The Contractor shall provide the following Technical Report-Study/Services in accordance with the following: (Reference SOW Paragraphs: 3.1.4, 3.1.5, 3.1.7, 3.1.8, 3.1.9, 3.1.10, 3.1.10.1, 3.1.11, 3.1.13, 3.1.15, 3.2.1, 3.2.2, 3.2.3, 3.2.7, 3.2.7.1, 3.2.7.2, 3.3.0.1, 3.3.2, 3.3.3, 3.3.4, 3.3.5, 3.3.6, 3.3.7, 3.3.10.1, 3.3.10.3, 3.3.12, 3.4.3.3, 3.8.1, 3.8.2, and 3.8.3.1)</p> <p>28. Encoding performance. Deliver draft at CDR, final at FAT. 29. Study/analysis of maintainability, deliver at CDR. 30. Analsis of telescope configuration. Deliver at CDR. 31. Analysis of telescope environmental performance, and survivability. Deliver at FAT. 32. Study/analysis of telescope protection system. Deliver at CDR. 33. Study/analysis of telescope system reliability. Deliver at CDR</p>					
15. TOTAL → 6 12					

17. PRICE GROUP
18. ESTIMATED

G. PREPARED BY		H. DATE	I. APPROVED BY		J. DATE
					1/29/99

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY:	
		A		TDP _____ TM _____ OTHER <u>X</u>	
D. SYSTEM / ITEM			E. CONTRACT / PR NO.		F. CONTRACTOR
One-Meter Telescope			N/A		RFP No.: N00173-98-R-CB04
1. DATA ITEM NO.	2. TITLE OF DATA ITEM			3. SUBTITLE	
A008	System Safety and Hazard Analysis Report			See 16	
4. AUTHORITY (Date Acquisition Document No.)			5. CONTRACT REFERENCE		6. REQUIRING OFFICE
N/A			Statement of Work		Naval Research Laboratory
7. DD 250 REQ	8. DIST STATEMENT REQUIRED	10. FREQUENCY		12. DATE OF FIRST SUBMISSION	
N/A		See 16		See 16	
9. APP CODE		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION	
N/A	N/A	See 16		See 16	
14. DISTRIBUTION					
a. ADDRESSEE				b. COPIES	
				Draft	Final
				Reg	Repro
COR				1	2
15. TOTAL → 1 2					

18. REMARKS
The Contractor shall provide the following System Safety and Hazard Analysis Report in accordance with the following: (Reference SOW Paragraphs: 7.7)

- System Safety and Hazard Analysis Report. Deliver at FAT.

17. PRICE GROUP
18. ESTIMATED

G. PREPARED BY		H. DATE	I. APPROVED BY	J. DATE
			<i>[Signature]</i>	1/29/99

CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 220 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ OTHER _____ X	
D. SYSTEM / ITEM One-Meter Telescope			E. CONTRACT / PR NO.		F. CONTRACTOR RFP No.: N00173-98-R-CB04
1. DATA ITEM NO. A010	2. TITLE OF DATA ITEM Development Design Drawings & Associated Lists			3. SUBTITLE See 16	
4. AUTHORITY (Data Acquisition Document No.) N/A			5. CONTRACT REFERENCE Statement of Work		6. REQUIRING OFFICE Naval Research Laboratory
7. DD 250 REQ N/A	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY See 16		12. DATE OF FIRST SUBMISSION See 16	
8. APP CODE N/A		11. AS OF DATE See 16		13. DATE OF SUBSEQUENT SUBMISSION See 16	
14. DISTRIBUTION					
a. ADDRESSEE			b. COPIES		
			Draft	Final	
			Reg	Repro	
COR			1	1	
COR			1	4	
COR			1	4	
15. TOTAL →			3	9	
16. REMARKS					
<p>The Contractor shall provide the following Development Design Drawings & Associated Lists in accordance with the following: (Reference SOW Paragraphs: 3.1, 3.4.2.1, and 3.4.2.2)</p> <p>1. Developmental Drawings/Schematics and manuals of the COTS and non-COTS gimbal electronic systems. Deliver at FAT.</p> <p>2. Developmental Drawings/Schematics of the Gimbal electronics. Deliver 5 hard copies and magnetic media at FAT.</p> <p>3. Mechanical drawings for telescope, telescope handling equipment, support equipment, and fixtures, Deliver 5 copies of drawings in both hard copy and magnetic media at FAT.</p>					
1. DATA ITEM NO. A011		2. TITLE OF DATA ITEM Training Materials		3. SUBTITLE See 16	
4. AUTHORITY (Data Acquisition Document No.) N/A			5. CONTRACT REFERENCE Statement of Work		6. REQUIRING OFFICE Naval Research Laboratory
7. DD 250 REQ N/A	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY See 16		12. DATE OF FIRST SUBMISSION See 16	
8. APP CODE N/A		11. AS OF DATE See 16		13. DATE OF SUBSEQUENT SUBMISSION See 16	
14. DISTRIBUTION					
a. ADDRESSEE			b. COPIES		
			Draft	Final	
			Reg	Repro	
COR			1	5	
15. TOTAL →			1	5	
16. REMARKS					
<p>The Contractor shall provide the following Training Materials in accordance with the following: (Reference SOW Paragraphs: 6.3)</p> <p>1. Training Materials. Deliver at FAT.</p>					
G. PREPARED BY		H. DATE	I. APPROVED BY <i>[Signature]</i>		J. DATE 1/29/99

17. PRICE GROUP
18. ESTIMATED

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>X</u>					
D. SYSTEM / ITEM One-Meter Telescope		E. CONTRACT / PR NO. N/A		F. CONTRACTOR RFP No.: N00173-98-R-CB04					
1. DATA ITEM NO. B001	2. TITLE OF DATA ITEM End Item Computer Software			3. SUBTITLE See 16					
4. AUTHORITY (Data Acquisition Document No.) N/A		5. CONTRACT REFERENCE Statement of Work		6. REQUIRING OFFICE Naval Research Laboratory					
7. DD 250 REQ N/A	8. DIST STATEMENT REQUIRED N/A	10. FREQUENCY See 16	12. DATE OF FIRST SUBMISSION See 16	14. DISTRIBUTION					
8. APP CODE N/A		11. AS OF DATE See 16	13. DATE OF SUBSEQUENT SUBMISSION See 16	a. ADDRESSEE					
18. REMARKS The Contractor shall provide the following End Item Computer Software in accordance with the following: (Reference SOW Paragraphs: 3.4.0.1, 3.4.1.3, 3.4.9,3.5, 3.5.5, 3.5.7 and 3.7.3) 1. Source and executable code for Functional Level Gimbal Dynamics Analysis. Deliver at FAT 2. Source and executable code for Real-Time TCS. Deliver at FAT. 3. Source and executable code for the low level board diagnostics software. Deliver at FAT. 4. Source and executable code for the Power Up Diagnostics. Deliver at FAT. 5. Source and executable code for the TUI computer software. Deliver at FAT. 6. Source code for Control functions. Deliver at FAT. 7. Source Code for Control System S/W. Deliver at FAT.				b. COPIES					
				COR		Draft	Final	Reg	Repro
				COR				1	1
				COR				1	1
				COR				1	1
				COR				1	1
				COR				1	1
				COR				1	1
				COR				1	1
				COR				1	1
				COR				1	1
				COR				1	1
				COR				1	1
				COR				1	1
				15. TOTAL				7	7

17. PRICE GROUP
18. ESTIMATED

G. PREPARED BY	H. DATE	I. APPROVED BY <i>[Signature]</i>	J. DATE 1/29/99
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CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY:	
		A		X	
D. SYSTEM / ITEM			E. CONTRACT / PR NO.		F. CONTRACTOR
One-Meter Telescope			N/A		RFP No.: N00173-98-R-CB04
1. DATA ITEM NO.	2. TITLE OF DATA ITEM			3. SUBTITLE	
B002	Software User Manuals			See 16	
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE		6. REQUIRING OFFICE
N/A			Statement of Work		Naval Research Laboratory
7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION
N/A		See 16	See 16		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE
N/A	N/A	See 16	See 16		
15. REMARKS					
<p>The Contractor shall provide the following Software User Manuals in accordance with the following: (Reference SOW Paragraphs: 3.4.0.1, 3.4.1.3, 3.4.9, 3.5, 3.5.5, 3.5.7 and 3.7.3)</p> <ol style="list-style-type: none"> 1. Software User's Manual for Functional Level Gimbal Dynamics Analysis. Deliver at FAT. 2. Software User's Manual for Control Functions, Deliver at FAT. 3. Software User's Manual for Control System S/W. Deliver at FAT. 4. Software User's Manual for Real-Time TCS software. Deliver at FAT. 5. Software User's Manual for the low level board diagnostics software. Deliver at FAT. 6. Software User's Manual for the Power Up Diagnostics. Deliver at FAT. 7. Software User's Manual for the TUI computer software. Deliver at FAT. 					
15. TOTAL →					
7 14					

17. PRICE GROUP
18. ESTIMATED

G. PREPARED BY		H. DATE	I. APPROVED BY		J. DATE
					1/29/99

**ENCLOSURE (1) TO DD FORM 1423
INSTRUCTIONS FOR DISTRIBUTION**

DISTRIBUTION OF TECHNICAL REPORTS

The minimum distribution of technical reports and the final report submitted in connection with this contract is as follows:

ADDRESSEE	DODAAD CODE	NUMBER OF COPIES	
		UNCLASSIFIED/ UNLIMITED	UNCLASSIFIED/LIMITED AND CLASSIFIED
COR/TM Naval Research Laboratory Code: 4555 Overlook Ave., S.W. Washington, DC 20375-5320	N00173	1	1
Administrative Contracting Officer		1	1
Director Naval Research Laboratory ATTN: Code: 5227 4555 Overlook Ave., S.W. Washington, DC 20375-5320	N00173	1	1
Defense Technical Information Center (DTIC) 8725 John J. Kingman Rd. Suite #0944 Fort Belvoir, VA 22060-6218	S47031	4	2

DISTRIBUTION OF NON-TECHNICAL REPORTS

The minimum distribution of non-technical reports submitted in connection with this contract is as follows:

ADDRESSEE	DODAAD CODE	NUMBER OF COPIES	
		UNCLASSIFIED/ UNLIMITED	UNCLASSIFIED/LIMITED AND CLASSIFIED
COR/TM	N00173	1	1
Administrative Contracting Officer (DCMAO)		1	1