

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			I. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE 22-Oct-2001	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO.(If applicable)
6. ISSUED BY V'BURG CONSOLIDATED CONTRACTING VICKSBURG OFFICE 4155 CLAY STREET VICKSBURG MS 39180-3435		CODE DACW42	7. ADMINISTERED BY (If other than item 6) CODE See Item 6	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. DACW42-01-R-0011
			X	9B. DATED (SEE ITEM 11) 07-Sep-2001
				10A. MOD. OF CONTRACT/ORDER NO.
				10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> 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 8 and 15, and returning <u> 1 </u> 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 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.				
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 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.) WITH THIS AMENDMENT THE FOLLOWING CLARIFICATIONS AND CHANGES ARE MADE: - Numerous editorial changes have been made in Sections B, C, F, I, L, and M. Most were merely for clarification, but some, especially those to Sections L and M, will materially effect proposal submission. (Reference Summary of Changes.) It is recommended that the Request For Proposal be re-read in its entirety. The date/time for submission of proposals is extended to 1400 hours on 8 November 2001.				
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 24-Oct-2001

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

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

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

Changes in Solicitation/Contract/Order Form

The number of offeror copies required has increased from 1 by 2 to 3

The required response date/time has changed from 18-Oct-2001 14:00 to 08-Nov-2001
1400 hours.

Changes in Section B

SECTION B

SUPPLIES OR SERVICES AND PRICES/COSTS

The contractor shall furnish the necessary plant, labor and material for various studies and services associated with field data collection, engineering analysis and data processing of existing and/or collected data as described in Section C - Description/Specifications and as ordered under specific delivery orders to be issued hereunder. The scopes will be in support of ongoing research efforts. The items listed on pages B-2 through B-6 represent an example of the effort required per year for a period of 5 years, base year plus four (4) option years. The unit prices will be included in any contract awarded and will form the basis for negotiation of individual delivery orders. All prices quoted for the items contained herein shall be inclusive of applicable overhead, fringe benefits, G&A, and any other indirect costs; however, Contractor's proposal should also include a detailed schedule of those direct/indirect cost factors. The total of items 0001 through 0005 shall be used for evaluation purposes only and award will be made for only the basic year (Item 0001). Funding will be obligated on individual Delivery Orders as they are issued and, at the discretion of the Government, may be incrementally funded (reference 252.232-7007, "Limitation of the Government's Obligation").

NOTE: The labor categories listed represent only those personnel most likely to be utilized on a recurring basis. Additional personnel, equipment or other items that are required but not specified herein will be negotiated with each Delivery Order.

NOTE: Travel to field sites and other specified locations may be necessary to perform the requirements of individual Delivery Orders. Commercial travel (i.e. airlines, rental vehicles, etc.) shall be utilized as efficiently as possible, taking advantage of discounted rates whenever practical. Privately owned vehicle (POV) mileage, per diem, and other applicable travel expenses shall be costed in accordance with the Department Of Defense Joint Travel Regulations (JTR). Costs will be negotiated with each Delivery Order.

NOTE: Individual Orders under this contract may be placed by facsimile, by transmission of the signed Order via mail service, or by electronic commerce methods, to include use of the Internet (E-mail).

Item 0001 Base Year		Estimated	Unit	Unit	Total
<u>Service</u>		<u>Quantity</u>	<u>Units</u>	<u>Price</u>	
1.	Project/Study Manager	400	Hours	_____	\$ _____
2.	Registered Land Surveyor	400	Hours	_____	\$ _____
3.	Senior Field Tech. - Instrumentation Positioning	2080	Hours	_____	\$ _____
4.	Junior Field Tech. - Instrumentation Positioning	2080	Hours	_____	\$ _____
5.	Technician Aide	2080	Hours	_____	\$ _____
6.	Hydrographer	400	Hours	_____	\$ _____
7.	Computer Operator Field Tech.	2080	Hours	_____	\$ _____
8.	Boat Operator	1440	Hours	_____	\$ _____
9.	Computer Programmer/GIS Analyst	400	Hours	_____	\$ _____
10.	CAD Draftsman	960	Hours	_____	\$ _____

11.	Digitizing Technician	960	Hours	_____	\$ _____
12.	Laboratory Technician	1040	Hours	_____	\$ _____
13.	Mathematician	400	Hours	_____	\$ _____
14.	Civil Engineer	400	Hours	_____	\$ _____
15.	Electrical Engineer	400	Hours	_____	\$ _____
16.	Structural Engineer	400	Hours	_____	\$ _____
17.	Mechanical Engineer	400	Hours	_____	\$ _____
18.	Geologist/Geo Physicist	400	Hours	_____	\$ _____
19.	Marine Fabricators	400	Hours	_____	\$ _____
20.	Machinists	400	Hours	_____	\$ _____
21.	Welders	400	Hours	_____	\$ _____
22.	Clerical/Administrative Assistant	640	Hours	_____	\$ _____
23.	Equipment Rental				
	A. Tide Gage	120	Days	_____	\$ _____
	B. Directional Near Shore Wave Gage	120	Days	_____	\$ _____
	C. 24' Research Boat w/AC, Heat, Gen. Operator, fuel, docking fees	180	Days	_____	\$ _____
	D. 18' Jon Boat, trailer, motor	60	Days	_____	\$ _____
	E. 14' Jon Boat, trailer, motor	60	Days	_____	\$ _____
	F. Positioning System - GPS	120	Days	_____	\$ _____
	G. Positioning System - Range/Azimuth	90	Days	_____	\$ _____
	H. Current Speed & Direction Meter	120	Days	_____	\$ _____
	I. Acoustic Doppler Current Profiler	180	Days	_____	\$ _____
	J. Side Scan Sonar	60	Days	_____	\$ _____
	K. Sub-bottom Profiler	60	Days	_____	\$ _____
	L. EM Current Meters	60	Days	_____	\$ _____
	M. Water Quality Probe	180	Days	_____	\$ _____
	N. Bottom Sediment Samplers	60	Days	_____	\$ _____
	O. Weather Stations	60	Days	_____	\$ _____

SUBTOTAL - ITEM 0001 \$ _____

PROFIT - _____% \$ _____

TOTAL - LINE ITEM 0001 \$ _____

Item 0002 Option Year 1

	<u>Service</u>	<u>Estimated Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Total</u>
1.	Project/Study Manager	400	Hours	_____	\$ _____
2.	Registered Land Surveyor	400	Hours	_____	\$ _____
3.	Senior Field Tech. - Instrumentation Positioning	2080	Hours	_____	\$ _____
4.	Junior Field Tech. - Instrumentation Positioning	2080	Hours	_____	\$ _____
5.	Technician Aide	2080	Hours	_____	\$ _____
6.	Hydrographer	400	Hours	_____	\$ _____
7.	Computer Operator Field Tech.	2080	Hours	_____	\$ _____
8.	Boat Operator	1440	Hours	_____	\$ _____
9.	Computer Programmer/GIS Analyst	400	Hours	_____	\$ _____
10.	CAD Draftsman	960	Hours	_____	\$ _____
11.	Digitizing Technician	960	Hours	_____	\$ _____
12.	Laboratory Technician	1040	Hours	_____	\$ _____

13. Mathematician	400	Hours	_____	\$ _____
14. Civil Engineer	400	Hours	_____	\$ _____
15. Electrical Engineer	400	Hours	_____	\$ _____
16. Structural Engineer	400	Hours	_____	\$ _____
17. Mechanical Engineer	400	Hours	_____	\$ _____
18. Geologist/Geo Physicist	400	Hours	_____	\$ _____
19. Marine Fabricators	400	Hours	_____	\$ _____
20. Machinists	400	Hours	_____	\$ _____
21. Welders	400	Hours	_____	\$ _____
22. Clerical/Administrative Assistant	640	Hours	_____	\$ _____
23. Equipment Rental				
A. Tide Gage	120	Days	_____	\$ _____
B. Directional Near Shore Wave Gage	120	Days	_____	\$ _____
C. 24' Research Boat w/AC, Heat, Gen. Operator, fuel, docking fees	180	Days	_____	\$ _____
D. 18' Jon Boat, trailer, motor	60	Days	_____	\$ _____
E. 14' Jon Boat, trailer, motor	60	Days	_____	\$ _____
F. Positioning System - GPS	120	Days	_____	\$ _____
G. Positioning System - Range/Azimuth	90	Days	_____	\$ _____
H. Current Speed & Direction Meter	120	Days	_____	\$ _____
I. Acoustic Doppler Current Profiler	180	Days	_____	\$ _____
J. Side Scan Sonar	60	Days	_____	\$ _____
K. Sub-bottom Profiler	60	Days	_____	\$ _____
L. EM Current Meters	60	Days	_____	\$ _____
M. Water Quality Probe	180	Days	_____	\$ _____
N. Bottom Sediment Samplers	60	Days	_____	\$ _____
O. Weather Stations	60	Days	_____	\$ _____

SUBTOTAL - ITEM 0002 \$ _____

PROFIT - _____% \$ _____

TOTAL - LINE ITEM 0002 \$ _____

Item 0003 Option Year 2

	<u>Estimated</u>		<u>Unit</u>	
<u>Service</u>	<u>Quantity</u>	<u>Units</u>	<u>Price</u>	<u>Total</u>
1. Project/Study Manager	400	Hours	_____	\$ _____
2. Registered Land Surveyor	400	Hours	_____	\$ _____
3. Senior Field Tech. - Instrumentation Positioning	2080	Hours	_____	\$ _____
4. Junior Field Tech. - Instrumentation Positioning	2080	Hours	_____	\$ _____
5. Technician Aide	2080	Hours	_____	\$ _____
6. Hydrographer	400	Hours	_____	\$ _____
7. Computer Operator Field Tech.	2080	Hours	_____	\$ _____
8. Boat Operator	1440	Hours	_____	\$ _____
9. Computer Programmer/GIS Analyst	400	Hours	_____	\$ _____
10. CAD Draftsman	960	Hours	_____	\$ _____
11. Digitizing Technician	960	Hours	_____	\$ _____
12. Laboratory Technician	1040	Hours	_____	\$ _____
13. Mathematician	400	Hours	_____	\$ _____
14. Civil Engineer	400	Hours	_____	\$ _____

15.	Electrical Engineer	400	Hours	_____	\$ _____
16.	Structural Engineer	400	Hours	_____	\$ _____
17.	Mechanical Engineer	400	Hours	_____	\$ _____
18.	Geologist/Geo Physicist	400	Hours	_____	\$ _____
19.	Marine Fabricators	400	Hours	_____	\$ _____
20.	Machinists	400	Hours	_____	\$ _____
21.	Welders	400	Hours	_____	\$ _____
22.	Clerical/Administrative Assistant	640	Hours	_____	\$ _____
23.	Equipment Rental				
	A. Tide Gage	120	Days	_____	\$ _____
	B. Directional Near Shore Wave Gage	120	Days	_____	\$ _____
	C. 24' Research Boat w/AC, Heat, Gen. Operator, fuel, docking fees	180	Days	_____	\$ _____
	D. 18' Jon Boat, trailer, motor	60	Days	_____	\$ _____
	E. 14' Jon Boat, trailer, motor	60	Days	_____	\$ _____
	F. Positioning System - GPS	120	Days	_____	\$ _____
	G. Positioning System - Range/Azimuth	90	Days	_____	\$ _____
	H. Current Speed & Direction Meter	120	Days	_____	\$ _____
	I. Acoustic Doppler Current Profiler	180	Days	_____	\$ _____
	J. Side Scan Sonar	60	Days	_____	\$ _____
	K. Sub-bottom Profiler	60	Days	_____	\$ _____
	L. EM Current Meters	60	Days	_____	\$ _____
	M. Water Quality Probe	180	Days	_____	\$ _____
	N. Bottom Sediment Samplers	60	Days	_____	\$ _____
	O. Weather Stations	60	Days	_____	\$ _____

SUBTOTAL - ITEM 0003 \$ _____

PROFIT - _____% \$ _____

TOTAL - LINE ITEM 0003 \$ _____

Item 0004 Option Year 3

	<u>Service</u>	<u>Estimated Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Total</u>
1.	Project/Study Manager	400	Hours	_____	\$ _____
2.	Registered Land Surveyor	400	Hours	_____	\$ _____
3.	Senior Field Tech. - Instrumentation Positioning	2080	Hours	_____	\$ _____
4.	Junior Field Tech. - Instrumentation Positioning	2080	Hours	_____	\$ _____
5.	Technician Aide	2080	Hours	_____	\$ _____
6.	Hydrographer	400	Hours	_____	\$ _____
7.	Computer Operator Field Tech.	2080	Hours	_____	\$ _____
8.	Boat Operator	1440	Hours	_____	\$ _____
9.	Computer Programmer/GIS Analyst	400	Hours	_____	\$ _____
10.	CAD Draftsman	960	Hours	_____	\$ _____
11.	Digitizing Technician	960	Hours	_____	\$ _____
12.	Laboratory Technician	1040	Hours	_____	\$ _____
13.	Mathematician	400	Hours	_____	\$ _____
14.	Civil Engineer	400	Hours	_____	\$ _____
15.	Electrical Engineer	400	Hours	_____	\$ _____
16.	Structural Engineer	400	Hours	_____	\$ _____

17. Mechanical Engineer	400	Hours	_____	\$ _____
18. Geologist/Geo Physicist	400	Hours	_____	\$ _____
19. Marine Fabricators	400	Hours	_____	\$ _____
20. Machinists	400	Hours	_____	\$ _____
21. Welders	400	Hours	_____	\$ _____
22. Clerical/Administrative Assistant	640	Hours	_____	\$ _____
23. Equipment Rental				
A. Tide Gage	120	Days	_____	\$ _____
B. Directional Near Shore Wave Gage	120	Days	_____	\$ _____
C. 24' Research Boat w/AC, Heat, Gen. Operator, fuel, docking fees	180	Days	_____	\$ _____
D. 18' Jon Boat, trailer, motor	60	Days	_____	\$ _____
E. 14' Jon Boat, trailer, motor	60	Days	_____	\$ _____
F. Positioning System - GPS	120	Days	_____	\$ _____
G. Positioning System - Range/Azimuth	90	Days	_____	\$ _____
H. Current Speed & Direction Meter	120	Days	_____	\$ _____
I. Acoustic Doppler Current Profiler	180	Days	_____	\$ _____
J. Side Scan Sonar	60	Days	_____	\$ _____
K. Sub-bottom Profiler	60	Days	_____	\$ _____
L. EM Current Meters	60	Days	_____	\$ _____
M. Water Quality Probe	180	Days	_____	\$ _____
N. Bottom Sediment Samplers	60	Days	_____	\$ _____
O. Weather Stations	60	Days	_____	\$ _____

SUBTOTAL - ITEM 0004 \$ _____

PROFIT - ____% \$ _____

TOTAL - LINE ITEM 0004 \$ _____

Item 0005 Option Year 4

	Estimated	Unit		
Service	Quantity	Units	Price	Total
1. Project/Study Manager	400	Hours	_____	\$ _____
2. Registered Land Surveyor	400	Hours	_____	\$ _____
3. Senior Field Tech. - Instrumentation Positioning	2080	Hours	_____	\$ _____
4. Junior Field Tech. - Instrumentation Positioning	2080	Hours	_____	\$ _____
5. Technician Aide	2080	Hours	_____	\$ _____
6. Hydrographer	400	Hours	_____	\$ _____
7. Computer Operator Field Tech.	2080	Hours	_____	\$ _____
8. Boat Operator	1440	Hours	_____	\$ _____
9. Computer Programmer/GIS Analyst	400	Hours	_____	\$ _____
10. CAD Draftsman	960	Hours	_____	\$ _____
11. Digitizing Technician	960	Hours	_____	\$ _____
12. Laboratory Technician	1040	Hours	_____	\$ _____
13. Mathematician	400	Hours	_____	\$ _____
14. Civil Engineer	400	Hours	_____	\$ _____
15. Electrical Engineer	400	Hours	_____	\$ _____
16. Structural Engineer	400	Hours	_____	\$ _____
17. Mechanical Engineer	400	Hours	_____	\$ _____
18. Geologist/Geo Physicist	400	Hours	_____	\$ _____

19.	Marine Fabricators	400	Hours	_____	\$ _____
20.	Machinists	400	Hours	_____	\$ _____
21.	Welders	400	Hours	_____	\$ _____
22.	Clerical/Administrative Assistant	640	Hours	_____	\$ _____
23.	Equipment Rental				
	A. Tide Gage	120	Days	_____	\$ _____
	B. Directional Near Shore Wave Gage	120	Days	_____	\$ _____
	C. 24' Research Boat w/AC, Heat, Gen. Operator, fuel, docking fees	180	Days	_____	\$ _____
	D. 18' Jon Boat, trailer, motor	60	Days	_____	\$ _____
	E. 14' Jon Boat, trailer, motor	60	Days	_____	\$ _____
	F. Positioning System - GPS	120	Days	_____	\$ _____
	G. Positioning System - Range/Azimuth	90	Days	_____	\$ _____
	H. Current Speed & Direction Meter	120	Days	_____	\$ _____
	I. Acoustic Doppler Current Profiler	180	Days	_____	\$ _____
	J. Side Scan Sonar	60	Days	_____	\$ _____
	K. Sub-bottom Profiler	60	Days	_____	\$ _____
	L. EM Current Meters	60	Days	_____	\$ _____
	M. Water Quality Probe	180	Days	_____	\$ _____
	N. Bottom Sediment Samplers	60	Days	_____	\$ _____
	O. Weather Stations	60	Days	_____	\$ _____

SUBTOTAL - ITEM 0005 \$ _____

PROFIT - ____% \$ _____

TOTAL - LINE ITEM 0005 \$ _____

Changes in Section C

SECTION C DESCRIPTION/SPECS/WORK STATEMENT

C-1. BACKGROUND

The Coastal and Hydraulics Laboratory (CHL), U.S. Army Engineer Research and Development Center (ERDC) intends to contract for scientific and engineering technical assistance (SETA) to include: field sampling, laboratory processing, data analysis, engineering services and quality assurance; as well as the non-technical support functions associated with these major areas of applied research.

Field data collection and analysis are necessary for all stages of CE projects. Typical data collection may include mean and oscillatory flow speed and direction, tide and other long wave heights, over land and over sea wind speed and direction, barometric pressure, air and sea temperature, salinity/conductivity, and bathymetry. Other services may include instrument positioning and locating, topography mapping, graphic digitizing, digital drafting, and laboratory analysis. USA-ERDC provides services to all of the CE Districts and Divisions as well as many other governmental entities and private corporations, so project locations could be worldwide.

Analysis of the data collection is performed using state-of-the-art algorithms. Typically, Analysis is entirely automated, but on occasion more traditional analysis methods must be applied to read strip charts or other mechanical recording devices. A contractor would be expected to be able to acquire and analyze hydrodynamic data and hydrographic data. Collection sites will be nationwide. The scope of work provided the Contractor with each delivery order will identify the data required the instrument types to be used, and the analysis techniques to be employed.

Some collection efforts require specialized instrumentation to be built, tested and fielded to acquire unique information at the project site. The Contractor needs to have the ability to work with ERDC staff in the design and construction of specialized instrumentation to collect the necessary data to quantify the conditions at hand. Some applications would include the construction of test structures, scale physical models and marine craft modifications. The Contractor must have experience in these areas.

There are numerous non-technical functions/tasks, which will be required in support of the primary R&D efforts identified on the individual Task Orders. They include maintenance and repair of instruments and systems, accountability for Government furnished equipment, preparation of progress and data reports, shipping and receiving of instrument and system calibration, preparation of reports required by regulatory agencies, and preparation of system documentation.

C-2. SCOPE OF WORK

C-2.1. General. The work to be performed under this contract consists of miscellaneous operations and maintenance support, scientific support, design and construction support, advanced systems support, quality assurance, data systems support, and administrative support for CHL/ERDC data collection and analysis programs conducted worldwide.

C-2.2. Statement of Contractor Services. The Contractor shall provide services, which will be detailed on each specific delivery order. Work to be accomplished may include:

- Automated bathymetry and topography mapping with GPS positioning
- Automated bathymetry and topography mapping using Range/Azimuth
- Capabilities must include Dual Frequency, Multi-Beam, and single beam transducer experience
- Providing work boats from 14' to 35' in length
- Instrument positioning referenced to a national datum
- Use of all forms of standard survey instrumentation including GPS equipment to centimeter level accuracy
- Deployment & servicing of instrumentation and collection of data to include but not limited to:

- Wave Gauges
- Current Meters
- Tide Gauges
- Salinity Meters
- Meteorological Sensors
- Positioning Systems
- Motion Analysis Systems
- Load Cells
- Strain Gauges
- Pressure Measurements
- Vibration Sensors

- Administrative support, i.e., reports, permits, accounting, shipping
- Graphic presentation of reports and charts
- Suspended sediment analysis, bed material analysis and other laboratory work
- Acoustic Doppler Current Profiler Experience, ADCP
- Towed Geophysical Arrays:

- Electrical Resistivity
- Side Scan Sonar
- Sub-Bottom Profilers

C-2.3. Personnel. Examples of the types of personnel required for the successful conduct of this scope of work are listed on pages B-2 through B-6 of this solicitation.

Changes in Section F

The following clauses which are incorporated by full text have been added or modified:

52.216-21 REQUIREMENTS. (OCT 1995) -- ALTERNATE I (APR 1984)

(a) This is a requirements contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies or services specified in the Schedule are estimates only and are not purchased by this contract. Except as this contract may otherwise provide, if the Government's requirements do not result in orders in the quantities described as "estimated" or "maximum" in the Schedule, that fact shall not constitute the basis for an equitable price adjustment.

(b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. Subject to any limitations in the Delivery-Order Limitations clause or elsewhere in this contract, the Contractor shall furnish to the Government all supplies or services specified in the Schedule and called for by orders issued in accordance with the Ordering clause. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(c) The estimated quantities are not the total requirements of the Government activity specified in the Schedule, but are estimates of requirements in excess of the quantities that the activity may itself furnish within its own capabilities. Except as this contract otherwise provides, the Government shall order from the Contractor all of that activity's requirements for supplies and services specified in the Schedule that exceed the quantities that the activity may itself furnish within its own capabilities.

(d) The Government is not required to purchase from the Contractor requirements in excess of any limit on total orders under this contract.

(e) If the Government urgently requires delivery of any quantity of an item before the earliest date that delivery may be specified under this contract, and if the Contractor will not accept an order providing for the accelerated delivery, the Government may acquire the urgently required goods or services from another source.

(f) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after **12 months from the expiration date of the contract, inclusive of exercised options.**

(End of clause)

52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor within 60 days (insert the period of time within which the Contracting Officer may exercise the option); provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least ___ days (60 days unless a different number of days is inserted) before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed **five (5) years.**

(End of clause)

Changes in Section I

The following clauses which are incorporated by reference have been added or modified:

52.222-43 Fair Labor Standards Act And Service Contract Act - Price MAY 1989
Adjustment (Multiple Year And Option)

The following clauses which are incorporated by full text have been added or modified:

52.219-6 NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE (JUL 1996)

(a) Definition.

"Small business concern," as used in this clause, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the size standards in this solicitation.

(b) General. (1) Offers are solicited only from small business concerns. Offers received from concerns that are not small business concerns shall be considered nonresponsive and will be rejected.

(2) Any award resulting from this solicitation will be made to a small business concern.

(c) Agreement. A small business concern submitting an offer in its own name agrees to furnish, in performing the contract, only end items manufactured or produced by small business concerns in the United States. The term "United States" includes its territories and possessions, the Commonwealth of Puerto Rico, the Trust Territory of the Pacific Islands, and the District of Columbia. If this procurement is processed under simplified acquisition procedures and the total amount of this contract does not exceed \$25,000, a small business concern may furnish the product of any domestic firm. This paragraph does not apply in connection with construction or service contracts.

(End of clause)

52.222-47 SERVICE CONTRACT ACT (SCA) MINIMUM WAGES AND FRINGE BENEFITS (MAY 1989)

An SCA wage determination applicable to this work has been requested from the U.S. Department of Labor. If an SCA wage determination is not incorporated herein, the bidders/offerors shall consider the economic terms of the collective bargaining agreement (CBA) between the incumbent Contractor _____ and the _____ (union). If the economic terms of the collective bargaining agreement or the collective bargaining agreement itself is not attached to the solicitation, copies can be obtained from the Contracting Officer. Pursuant to Department of Labor Regulation, 29 CFR 4.1b and paragraph (b) of the clause at 52.222-41, Service Contract Act of 1965, as amended, the economic terms of that agreement will apply to the contract resulting from this solicitation, notwithstanding the absence of a wage determination reflecting such terms, unless it is determined that the agreement was not the result of arm's length negotiations or that after a hearing pursuant to section 4(c) of the Act, the economic terms of the agreement are substantially at variance with the wages prevailing in the area.

(End of clause)

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far/>

<http://web1.deskbook.osd.mil/htmlfiles/rlcats.asp>

Changes in Section L

The following clauses which are incorporated by full text have been added or modified:

Proposal Format and Content

In order to provide all necessary information for a comprehensive evaluation, the offeror shall submit a proposal in four physically separate sections and detachable parts, titles, and quantities as follows:

PART I	Executed Request For Proposal Documents	Original plus 1 copy
PART II	Technical Proposal	Original plus 3 copies
PART III	Past Performance Information	Original plus 3 copies
PART IV	Price Information	Original plus 3 copies

In addition to the specific requirements of each part, the offeror shall provide any necessary narrative or supporting materials considered appropriate allow the Government to fully understand the proposal. The offeror shall agree to hold proposed prices firm for a minimum of one hundred twenty (120) calendar days after the date specified for receipt of offers. (Proposed period for acceptance of offer should be specified in the Executed Request for Proposal Documents, Block 12 of Standard Form 33.)

The original and all copies of the proposal must be sent to the VICKSBURG CONSOLIDATED CONTRACTING OFFICE, CEMVK-CT-T (TOMMY JAMES), VICKSBURG CORPS OF ENGINEERS, 4155 CLY STREET, VICKSBURG, MS 39183-3435.

Preparation of Proposal Parts

PART I, The Executed Request For Proposal Documents

Part I shall contain the signed original of all documents requiring signature of the offeror and all representations and certifications required by the solicitation. Use of reproductions of signed originals is authorized in all remaining copies of the proposal.

These documents include SF 33, all applicable Amendments, Offer and Award Document, and Section K, Representations, Certifications, and Other Statements of Offerors. This document shall be fully executed and returned in its entirety. Ensure that an authorized person signs the offer at Block 17 of page 1.

PART II, Technical Proposal

Part II, Technical Proposal, shall be clear, concise, and shall include sufficient detail for effective evaluation and for substantiating the validity of stated claims. Unnecessarily elaborate brochures or other presentation materials beyond those sufficient to present a complete and effective response are not desired. The proposal shall address all requirements of the Request For Proposal and shall clearly demonstrate how the contractor plans to perform the requirements of the Statement of Work. The proposal should not simply rephrase or restate the Government's requirements, but rather shall provide convincing rationale to address how the offeror intends to meet these requirements. Offerors shall assume that the Government has no prior knowledge of their facilities and experience, and will base its evaluation on the information presented in the offeror's proposal. All the requirements specified in the RFP are mandatory. By your proposal submission you are representing that your firm will perform all the requirements specified in the RFP.

PART III, Past Performance Information

Submit information on contracts within the past five (5) years that you consider relevant in demonstrating your ability to perform the proposed effort. Narrative information addressing the sub-factors in Section M should be provided in sufficient detail to facilitate evaluation. This information may include data on efforts performed by other divisions, corporate management, key personnel, critical subcontractors, or teaming contractors, if such resources will be brought to bear or significantly influence performance under the contract.

Offerors are required to explain what aspects of the contracts are deemed relevant (consistent with the scope and complexity of the functions in the solicitation as well as technical experience in the performance of services/delivery of products similar in size, type, and complexity required by this solicitation) to the proposed effort and may include a discussion of significant achievements or an explanation of past problems they consider relevant to the proposed efforts as well as past efforts, to identify and manage program risk. You are also encouraged to provide information of awards or recognition received, i.e. letters of appreciation, performance evaluations, commendations, etc.

The following information is also required:

- (a) Name of contracting activity
- (b) Contract number
- (c) Contract type (firm, fixed-price, cost plus, etc.)
- (d) Total contract value (original/negotiated value, value of modifications and explanations)
- (e) Description of contract requirements
- (f) Contracting Officer and contact information
- (g) Program Manager or Contracting Officer Representative and contact information
- (h) Administrative Contracting Officer (if different from above) and contact information
- (i) List of major subcontractors
- (j) Overall performance rating, if available.

PART IV, Price Proposal and Related Information

The offeror's price proposal shall address a complete and traceable description of prices for the performance of all stated requirements in accordance with the individual labor and equipment items identified at Schedule B. Unit prices shown at Schedule B shall be "loaded" rates, inclusive of all burdens and associated direct and indirect costs; in addition, within the pricing proposal, offeror shall provide a separated schedule indicating hourly rates for each labor category plus overhead, G&A, and other direct/indirect costs which comprise the total unit price as shown at Schedule B. If awarded, option year prices will be as stated in the base contract, therefore option years' prices should include allowances for inflation and usual salary/wage increases. Each proposed subcontractor shall submit comparable data unless exempted by FAR 15.403-1.

The price proposal shall be submitted in sufficient detail for the Government to examine the basis for offeror's proposed price and profit. It is expected that this contract will be awarded based upon a determination that there is adequate price competition, therefore, the offeror is not required to submit certified cost or pricing data. However, after receipt of proposals, if the Contracting Officer determines that certification of such data is required, the right is reserved to require certified, additional detailed cost data, and/or audit as determined necessary.

52.233-2 SERVICE OF PROTEST (AUG 1996)

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from 4155 Clay Street, Room 144, Vicksburg, MS 39183-3435.

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

(End of provision)

Changes in Section M

The following clauses which are incorporated by full text have been added or modified:

1. EVALUATION CRITERIA

a. General Considerations

The Government intends to award a contract or contracts resulting from this solicitation to the responsive and responsible offeror(s) whose proposal(s) represents the best value after evaluation in accordance with the factors and subfactors in the solicitation. The Government may reject any or all proposals if such action is in the Government's best interest. The Government intends to evaluate proposals and award a contract without discussions with offerors [except clarifications as described in FAR 15.306(a)]. Therefore, the offeror's initial proposal should contain the offeror's best terms from a price and technical standpoint. The Government reserves the right to conduct discussions if the Contracting Officer later determines them to be necessary. If the Contracting Officer determines that the number of proposals that would otherwise be in the competitive range exceeds the number at which an efficient competition can be conducted, the Contracting Officer may limit the number of proposals in the competitive range to the greatest number that will permit an efficient competition among the most highly rated proposals. The Government reserves the right to make multiple awards if, after considering the additional administrative costs, it is in the Government's best interest to do so.

In making the overall "Best Value" decision, the Government will consider the value of each proposal in terms of past performance, technical, response capability, and company resources (manpower and equipment availability) offered for the proposed price. This process reserves the Government's right to award to other than the lowest price and/or highest evaluated proposal.

b. Basis for Contract Award

(1) An evaluation will be made of each offeror's proposal and the results will be used in determining the source to be selected. The source selection will be based on an integrated assessment of the areas set forth below to determine the proposal most advantageous to the Government. The integrated assessment will involve a determination by the Government of the overall value of each proposal. Offerors must recognize that the subjective judgment of the Government evaluators is implicit in the evaluation process. Throughout the evaluation the Government will consider "corrective potential" when a deficiency is identified. Proposals unrealistic in terms of the stated evaluation factors will be deemed to indicative of an inherent lack of comprehension of the complexity and risks of the requirements and may be rejected.

(2) Cost or price will be a factor in the Source Selection Authority's (SSA's) decision. Selection will be based upon the most advantageous offer, price or cost and other factors considered. Offerors should perform technical-cost tradeoffs to achieve a balance which reflects and permits the cost-effective pursuit of high quality performance. The basis of the proposed cost must be compatible with all other elements of the proposal. No advantage will accrue to an offeror who submits an unrealistically low cost proposal. Such a proposal may be viewed as indicative of a lack of understanding of the Government's desired objective.

c. Evaluation Factors

(1) Each offeror's proposal will be evaluated against the areas shown below and listed in descending order of importance. Of the factors, other than price, past performance is the most important, and is slightly more important than technical, and significantly more important than response capability and company resources. When combined, the non-cost factors of past performance, technical, response capability, and company resources are significantly more important than price.

(a) Past performance and experience; to include at a minimum:

1. Demonstrated performance in support of similar R&D efforts;
2. Education and technical experience of key personnel.

The Government will evaluate past performance on the basis of the offeror's specific experience and performance record in providing services/products during the previous five years which are consistent with the scope and complexity of this solicitation. The Government will use information provided in the offeror's proposal, and may also use information obtained from other sources that may have useful and relevant information. Information will also be considered regarding any significant subcontractors or key personnel to the extent that such subcontractors or key personnel are proposed for use on this particular contract. Award may be made from the initial offers without discussions. However, if discussions are held offerors will be given an opportunity to address unfavorable reports of past performance.

If an offeror, or the proposed employees of the offeror, does not have a past performance history relating to the solicitation, the offeror will be given a neutral rating. The source selection authority shall exercise discretion in the determination of whether past performance information furnished is or is not considered as relevant to the present requirement. In all cases of offerors from whom there is no information collected or otherwise furnished on past performance, the neutral rating assigned may effectively view the offeror as an unknown performance risk. As an unknown performance risk, evaluators shall rate the offeror neither favorably nor unfavorably on the factor of past performance. However, competitors are advised that use of this neutral rating approach for offerors with no past performance history may properly cause the offeror to be considered less favorably than another with a favorable and relevant performance history. In any Best Value acquisition, it may be appropriate, in some cases, to award to a higher cost offeror with a good performance record over a lower cost, "neutral rated" offeror with no relevant past performance history.

(b) Technical; offeror must demonstrate a clear understanding of contract requirements and a comprehensive approach to accomplishing multiple tasks in all the technical areas identified in the Statement of Work, including the ability to:

1. Provide services and equipment necessary to complete stated contract requirements;
2. Develop field monitoring plans;
3. Provide the required ancillary personnel support;
4. Provide design and testing support as described in Section C.
5. Construct and manage the construction of test structures and/or physical models.

(c) Capability to respond on short notice (24 hours):

- a. Response plan to undertake a task anywhere in the U.S.;
- b. On-site availability or transport of equipment listed in Schedule B.

(d) Sufficient company resources to provide a majority of the required services and equipment so as to lessen dependence on sub-contractors.

(e) Price. The offeror's cost/price proposal will not be rated or scored, but will be evaluated for price reasonableness.

d. Price Reasonableness

(1) Price Reasonableness: Price analysis will be conducted to determine price reasonableness in accordance with FAR 15.805-2. One or more of the following techniques may be used to perform price analysis:

- (a) Comparison of proposed prices received in response to the solicitation.
- (b) Comparison of prior proposed prices and contract prices with current proposed prices for the same or similar end items.

(c) Application of rough yardsticks (such as dollars per pound or per horsepower, or other units) to highlight significant inconsistencies that warrant additional pricing inquiry.

(d) Comparison with competitive published price lists, published market prices of commodities, similar indexes, and discount or rebate arrangements.

(e) Comparison of proposed prices with independent Government cost estimates (see 15.803(b)).

e. General Areas of Evaluation

(1) Each area (except cost/price) will be rated in two manners: an adjectival rating and a proposal risk rating. The adjectival rating depicts how well the offeror's proposal meets the evaluation standards and solicitation requirements. Proposal risk assesses the risks associated with the offeror's proposed effort as it relates to accomplishing the requirements of this solicitation.

52.217-5 EVALUATION OF OPTIONS (JUL 1990)

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

(End of Provision)

End of Section M