

**SOLICITATION**

**FINAL**

1. SOLICITATION NO. N00024-09-R-3165		2. AMENDMENT NO. 2		3. EFFECTIVE DATE 02/25/2010		4. PURCHASE REQUEST NO. 09-CH-019	
5. ISSUED BY Cathleen Haffner NSWC, CARDEROCK DIVISION, MARYLAND 9500 MacArthur Blvd West Bethesda MD 20817 cathleen.haffner@navy.mil 301-227-3603				6. ADMINISTERED BY			
7. CONTRACTOR				8. DELIVERY DATE See Section F		9. CLOSING DATE/TIME 03/17/2010 1400 <small>(hours local time – Block 5 issuing office)</small>	
				10. MAIL INVOICES TO See Section G			
11. SHIP TO See Section D				12. PAYMENT WILL BE MADE BY			
13. TYPE OF ORDER	D	X	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above-numbered contract.				
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.							
NAME OF CONTRACTOR		SIGNATURE		TYPED NAME AND TITLE		DATE SIGNED	
14. ACCOUNTING AND APPROPRIATION DATA See Section G							
15. ITEM NO.	16. SCHEDULE OF SUPPLIES/SERVICES			17. QUANTITY ORDERED/ACCEPTED*	18. UNIT	19. UNIT PRICE	20. AMOUNT
See the Following Pages							
*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.				21. UNITED STATES OF AMERICA By: _____ CONTRACTING/ORDERING OFFICER			22. TOTAL
SECTION	DESCRIPTION			SECTION	DESCRIPTION		
B	SUPPLIES OR SERVICES AND PRICES/COSTS			H	SPECIAL CONTRACT REQUIREMENTS		
C	DESCRIPTION/SPECS/WORK STATEMENT			I	CONTRACT CLAUSES		
D	PACKAGING AND MARKING			J	LIST OF ATTACHMENTS		
E	INSPECTION AND ACCEPTANCE			K	REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS		
F	DELIVERIES OR PERFORMANCE			L	INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS		
G	CONTRACT ADMINISTRATION DATA			M	EVALUATION FACTORS FOR AWARD		

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## GENERAL INFORMATION

### AMENDMENT 0002:

The purpose of this Amendment is to correct the typographical error on page 2 of Amendment 0001 which states the closing date of the solicitation. The sentence should read:

The closing date of the solicitation remains unchanged at 17 March 2010, 1400 hrs.

### AMENDMENT 0001:

The purpose of this Amendment is to correct the table found in Section L, paragraph 3.0 COST PROPOSAL (pages 37 and 38 of the solicitation). The labor category "Sr. Electronic Technician" is moved from Key Personnel to Non-Key Personnel.

The closing date of the solicitation remains unchanged at ~~27~~ 17 March 2010, 1400 hrs.

### Incumbent Contractor:

Planning Systems Incorporated  
12030 Sunrise Valley Drive  
Suite 400, Reston Plaza 1  
Reston, VA 20191

Contract Number: N00167-02-D-0038

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**SECTION B SUPPLIES OR SERVICES AND PRICES**

Offerors please complete.

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

Item	Supplies/Services Qty	Unit	Est. Cost	Fixed Fee	CPFF
4000	Scientific, Engineering, and Technical Management services in support of signature technology. (TBD)	1.0 Lot			

For ODC Items:

Item	Supplies/Services Qty	Unit	Est. Cost
6000	Other Direct Costs (Inclusive of all indirect costs and are non-fee bearing) (TBD)	1.0 Lot	

CLIN 6000 is a Government specified Not-To-Exceed (NTE) amount of \$6,994,786.00, inclusive of all indirect costs.

Note: If fee is included in the pass through rate for subcontractor labor costs, the prime contractor is requested to identify what percentage of the pass through cost is considered fee in their cost proposal. The maximum labor pass through rate (which includes all adders and any prime contractor fee applied to subcontractor labor costs) shall not exceed 8%.

Small Business Subcontracting Plans are required for all large businesses submitting proposals in accordance with FAR 52.219-9 Alt II SMALL BUSINESS SUBCONTRACTING PLAN (Jan 2002) ALTERNATE II. The Small Business Subcontracting Plan is facilitated in the portal and must be included with proposal submission.

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## **SECTION C DESCRIPTIONS AND SPECIFICATIONS**

### **STATEMENT OF WORK FOR ENGINEERING AND TECHNICAL SERVICES SUPPORT CONTRACT**

#### **I. INTRODUCTION**

The services to be performed under this task order are considered performance based and will be evaluated by the Government in accordance with Clause No. CAR-H09 - Performance-Based Acquisition Evaluation Procedures for a Seaport-e Task Order (MAY 2007).

##### **1.0 Background**

The contractor shall provide scientific, engineering, and technical management services in support of navy and marine signatures, signature measurement systems and technology, signature control technology, advanced signal processing, and advanced technology programs. Contractor analytical and technical efforts will be required in all stages of navy and marine signature programs from concept formulation, engineering analysis and development, operational test and evaluation, through implementation, upgrade and life cycle support.

##### **2.0 Implementation**

The contractor will provide the personnel, material, and facilities necessary to accomplish task assignments within the task areas generally described in the SCOPE OF WORK. These efforts will be implemented through the issuance of written work assignments, or Technical Instructions. Carderock Division, Naval Surface Warfare Center (NSWCCD), through the Task Order Manager (TOM), will provide the classified information and technical data necessary for task performance and will provide information on ship schedules for those tasks requiring visits to fleet units.

#### **II. SCOPE OF WORK**

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The contractor shall perform specific tasks within the following areas:

TASK AREA 1 Operational Trials Design, Sonar Data Collection, Signature Data Collection, and Data Analysis and Reporting

The contractor shall provide trial design engineering and analysis services for special experimental programs, submarine signature trials, and standard Sonar Calibration (SOCAL) exercises which involve both acoustic and non-acoustic measurements in support of the mission. In support of special programs the contractor may be required to support TUBA trials including data reduction on AN/BQH-9(V) Signal Data Recording Set (SDRS), AN/BQH-11(V) Miniature Element Recording System (MERS), or future TUBA or tactical collection systems using Combined Processing System (CPS), External Monitor and Playback (EMAP) system, Calibration Processor (CAL Processor), TUBA Portable Element Analysis System (T-PEAS) or future TUBA Data Reduction Systems, and STAFAC and SEAFAC life cycle and R&D trials. The engineering and analysis efforts shall include the evaluation of HGMS trial data to develop more efficient ways of utilizing the full system capacity during reduced duration trials. Production of draft trials plans, incorporation of Fleet safety and NSWCCD operational guidelines, and accepted statistical design techniques for at-sea scenarios and installation planning, will be required. The contractor shall also be required to participate in at-sea experiments in the areas of signature collection, data reduction and data management, special trials engineering, ILS support of trials equipment including recommendations for methods of equipment installation acceptable to Fleet Commanders, and providing pre-trial planning for STAFAC, SEAFAC and Target Strength system trials to accomplish more efficient resource utilization. The contractor shall assist NSWCCD personnel in the design and execution of at-sea experiments for the purposes of acoustic and non-acoustic data collection. The contractor shall assist in the planning of tow tracks, submarine tracks, sensor design, manufacture and placement, projector levels and signal type, and pre-assessments of acoustic, non-acoustic and environmental conditions expected to influence the system/test. The contractor shall also furnish personnel to participate in the data collection experiments. These personnel shall provide at-sea data and model analysis support and perform general purpose functions such as the installation and

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removal of sea test hardware; the operation of tape-recorders, sonobuoy receivers, filters, amplifiers, spectrum analyzers and other monitoring and recording equipment; and also maintain data log sheets. To support this task area, the contractor shall be responsible for all necessary logistics, such as providing any necessary special sensors and instrumentation, equipment and expendables/consumables, shipping and handling to support these data collection experiments. The contractor shall accomplish special engineering investigations for NSWCCD acquired data, including real-time spectral processing and data summarization suitable for direct publications. The contractor shall prepare technical presentations and instructive material to serve as guidance to NSWCCD and the Signatures technical community in the data reduction, data processing, and analysis of specialized sonar data. These presentations/materials shall emphasize the technical explanation of system processing characteristics associated with the collection sensors, and shall specify system induced statistical variations of the data. System dependent techniques for the incorporation of low signal-to-noise ratio data in the processed database shall be analyzed. Procedures to specify the extent of sensor self-noise in data fluctuations shall be incorporated. The contractor shall prepare and/or update operator and user manuals and Interactive Electronic Technical Manuals (IETM) for selected data collection equipment, data reduction/analysis equipment, and sensor system equipment operating in a data gathering mode. Manuals shall encompass system operation, system deployment, system monitoring and system operations employment. Furthermore, the manuals shall specify organizational and operational requirements for data collection, a review of collection directives, and new signature processing requirements and modifications required by the introduction of new systems and/or components. The contractor shall also provide ILS support on selected signature acquisition equipment. The task efforts shall be documented in technical reports and trials summaries.

## TASK AREA 2 NSWCCD Signal Processing Systems Operational and Maintenance Support

The contractor shall perform signal processing related to program efforts, including: operation and maintenance of TUBA data processing systems (e.g., CPS, CAL Processor, EMAP, T-PEAS) and related systems; processing upgrades and enhancements to support TUBA data analysis, archive, and reporting functions; performing initial file set-up for post reduction; data analysis, review, and editing,

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and database updating and maintenance; preparation of Acoustic Data Analysis Center (ADAC) data reduction requests aided by Advanced Digital Auxillary Data Set (ADADS), Support Data Interface (SDI), and/or shipboard logs; and monitoring data flow and quality. The contractor shall provide sonar measurement products such as Le, sonar sensitivity, SPL, and NDI, and shall prepare final tabular summaries and graphical outputs. In addition, the contractor shall perform data averages from data generated in ADAC and make data comparisons to satisfy reporting requirements. The contractor shall also provide operational and maintenance support to the systems at NSWCCD which are used for post-trial analysis, including the Common Analysis Tool (CAT), Multi-channel Acquisition and Recording System (MARS), Submarine Acoustic Beamformer Replacement (SABRE-3), Source Localization Analysis Workstation (SLAWS), Source Localization Imaging Tool (SLIT), and the Total Ship Monitoring Systems (TSMS). The contractor shall also provide operational and maintenance support for servers at ADAC including DNS, Web Server, Mail Server, and print and file servers. The contractor shall provide operational and maintenance support of network infrastructure at ADAC including routers, switches, end user computers, and network administration. The contractor shall provide Information Assurance support including management, documentation and remediation to ensure the network and infrastructure are maintained in compliance with IA directives. In addition, the contractor shall provide operational and maintenance support to the NSWCCD in-house systems that provide post-test processing capability for data processed at the ARD including ISMS, LSV, and other test data.

### TASK AREA 3 NSWCCD Signal Processing Systems Design and Upgrade Support

The contractor shall design, implement, upgrade, and support systems for post-trial TUBA Acoustic Reporting and Processing System (TARPS), ISMS post-test processing and related systems, and the STAFAC/SEAFAC High Gain Measurement Systems (HGMS), which includes but is not limited to beamformers, beamsteering, data formatters, telemetry interface, MARS, Continuous Monitor, Array Monitor, Common Analysis Tool, Storage Area Network (SAN), and Source Localization Analysis Workstation (SLAWS). System changes shall be developed, tested, and installed to; expand

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capabilities; to remain compatible with sonar data gathering systems; or as requested by system users and approved by NSWCCD System Managers, via the Task Order Manager (TOM). The contractor shall provide changes to existing program documentation and deliver concurrent with system integration. Documentation shall follow accepted standards and include usage and operation instructions. The contractor shall also provide engineering support for NSWCCD's data acquisition and processing systems. The maintenance shall include existing and follow-on TARPS systems, desktop automated systems, tape recorders, disk drives and analyzers, and other measurement/storage instrumentation. Also, engineering support will be required in the areas of operational checkout, corrective and preventative maintenance, calibration, and system documentation.

#### TASK AREA 4 On Board Sonar System and Acoustic System Support

The contractor shall design and implement specialized analysis algorithms and databases for customized on-board sonar processing equipment and on-board signature monitoring systems to perform selected measurements and data collection. Systems to be incorporated will include automatic controllers associated with AN/BQH-9(V) SDRS, AN/BQH-11(V) MERS, future TUBA and tactical recording systems, and AN/BQQ-10 series sonar systems and shall include TARPS subsystems such as CPS, T-PEAS, CAL Processor, EMAP and future TUBA on-board data processing systems; special purpose measurement equipment such as BATTPHONE; all STAFAC and SEAFAC processing and analysis subsystems, including the beamformer, beamsteerer, data formatters, telemetry interface, MARS, Continuous Monitor, Array Analysis, SAN, CAT, and Tracking and Underwater Comms (TUC) subsystems. The contractor shall also support ADAC legacy acoustic processing and analysis systems. The contractor shall provide engineering support for the D&D workstation and Transient Processor; as well as related shipboard measurement systems, including ATOMS and SSNFS. The subsystems will be interfaced to data gathering systems such as AN/BQH-9(V) or other TUBA data collection systems, and/or Platform Sonar Systems, and will monitor data during sonar grooms, calibrations, and other acoustic trials. System development shall be performed to enhance acquisition, execution, and processing time dictated by the introduction of additional sonar systems or to meet special objectives. Where applicable, each development will follow the NSWCCD Configuration Management Plans. All

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system expansions, modifications, and changes are to be documented in accordance with established reporting procedures. The contractor shall provide engineering support for NSWCCD's data acquisition and processing systems in the areas of operational checkout, corrective and preventative maintenance, calibration, and system documentation. Included are CPS, EMAP, STAFAC and SEAFAC High Gain Measurement Systems telemetry and beamforming systems, target strength arrays and telemetry systems, Large Scale Vehicle (LSV) radiated noise and on-board measurement systems (i.e., RNDAAS and ODAS), ATOMS, SSNFS, and Tracking and Underwater Communication Systems. The contractor shall also be required to design, develop, build, and assemble or modify data processing equipment, special cards, or DSP codes required to meet trial objectives.

#### TASK AREA 5 Measurement System Modeling, Performance Prediction, and Data Collection Support

The contractor shall perform engineering analyses involving modeling and systems performance prediction for Navy sonars using advanced digital and electronic sonar interface modeling techniques. The analyses shall involve simulation of various improvements to AN/BQQ-10 sonars and the AN/BQH-9(V), HFA, STA, other TUBA systems, and signature monitoring systems. A complete array/processor performance prediction model shall also be developed and exercised for an evaluation of processor self-noise degradation. EDM test results, as well as at-sea test data, shall be incorporated into these models. Advanced sonar configurations, including AN/BQQ-10 and future sonar configurations, and measurement systems such as the High Gain Measurement Systems, shall be analyzed, and specific simulations, which provide information on the application of these concepts to program objectives, shall be performed. The contractor shall conduct analyses of High Gain Measurement System measurements to assess noise, array gain, signature measurement accuracy, and operational performance in shallow and deep water environments. In all cases, simulations shall employ performance models which explicitly account for electronic interfaces and control aspects of modern sonar systems. The contractor shall also provide scientific and technical analyses for several high frequency sonar system developments and assessment efforts using advanced sonar simulation, self-noise evaluation, and signal processing techniques. High frequency sensor concepts shall be considered,

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and the analyses shall address technical issues relative to the application of the concepts for high frequency data collection. The issues shall include self-noise, design tradeoffs, and groom/calibration procedure modifications for assessing the impact of these sonar programs on the data collection functions, and shall be documented with technical reports.

#### TASK AREA 6 Algorithms and Numerical Modeling

The Contractor shall be responsible for analyzing, developing, updating, implementing, and maintaining numerical algorithms for acoustic and non-acoustic prediction systems, processors, and trainers. This task area also includes analysis and assessment of AN/BQQ-10 A-RCI APB algorithms. Analysis and implementation shall include a recommendation for the best algorithms for specific uses. Algorithms, databases and models shall be implemented for specific scenarios that can apply to either prediction systems, processors, sonar systems, or trainers. Analysis also includes model/data comparisons, and identification and classification of model and/or data deficiencies. Development may include, but is not limited to, passive and active localization, tracking, classification, signal processing, propagation loss, sound pressure level and target strength computation, transmission path loss, probability of detection, signal synthesis, and beamforming. Algorithms and models will also require software maintenance and upgrades for transportability between platforms, for tactical and training displays, for access to new databases, and for modeling new sensor characteristics.

#### TASK AREA 7 Future Data Acquisition and Measurement System Design, Analysis, and Systems Development

The contractor shall perform detailed design analyses of future data acquisition and/or measurement systems, methods, and geometries required for new generation submarines such as VIRGINIA Class block upgrades, next generation SSBN, and other Team Sub assets, as well as DDG-1000 and other surface ships. Analysis and prediction of measurement system performance for VIRGINIA R&D measurements and VIRGINIA trials will be required. This support shall include design and development

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support of future systems at the Acoustic Research Detachment (ARD) in Bayview, ID, the South Florida Test Facility (SFTF) in Fort Lauderdale, FL, SEAFAC, and STAFAC. Other areas of study will determine alternative methods for routine signature monitoring using onboard systems and methods for further refining target strength measurement, source characterization, and non-acoustic signatures. The contractor shall also perform detailed analyses of planned new data acquisition systems to assess the impact of such on the requirements for processing and analyzing the resulting data at NSWCCD signature processing facilities. The introduction of new signature acquisition systems employing advanced technologies and new sonar sensor arrays, hydrophone arrays, and telemetry systems, as well as new measurement approaches and new processing/analysis techniques, shall also be studied. The contractor shall use the results of these studies to provide recommendations for upgrading and/or modernizing current facilities and equipment. The results of each study effort shall be documented in a final report. Based on design analyses and studies, the contractor shall be required to develop new radiated noise measurement systems; advanced signal processing systems; Information Technology (IT) systems; and mass data storage, retrieval and analysis systems; structureborne noise and sonar self-noise measurement, acquisition, and processing systems in support of Signature Directorate Programs.

#### TASK AREA 8 ACINT Analysis, Assessment, Quality Assurance, Signal Processing Support and Studies

The contractor shall assist the ACINT program in Science and Technology (S&T) analysis by reviewing ACINT reports, publications, and other products for accuracy and consistency and assist in the development and implementation of new products and production procedures. The contractor shall review individual acoustic intelligence reports for possible trends and new developments and produce intelligence assessments and studies of the results of these analyses. The contractor shall assist the ACINT program in Sound Pressure Level (SPL) analysis and conduct in-depth studies using specialized SPL processing and analysis equipment, report results and identify hardware, software, or architecture changes that would improve efficiency and throughput. The contractor shall reconstruct the target track relative to the sensor in order to calculate sensor-to-target range and aspect as a function of time, and compute sensor-to-target propagation loss using an appropriate propagation loss model. The

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contractor shall assist the ACINT program in the area of signal processing by participating in the design, development and rapid prototyping of specialized acoustic analysis signal processing tools and related displays/graphical interface units.

### TASK AREA 9 Program Management Support

The contractor shall perform scientific and engineering analyses for long term Navy development programs. The analyses will involve combining the disciplines of underwater acoustics, undersea warfare, acoustic propagation, signature data collection, submarine quieting, RCS measurement & reduction, and Navy acoustic system development to support NSWCCD participation in current and future signature measurement programs. Analyze and review program areas including planning for advanced transient experimentation, developing POA&M and ILS planning, configuration management planning, documentation, and support for SASMP, SSGN, SSN23, NAVAIR, SPAWARS, ONI, ONR, Virginia Class Programs, and ACINT Programs. Results shall be incorporated into both planning and analysis functions for NSWCCD in each long term project area. The contractor shall provide liaison and progress monitoring of NSWCCD programs through attendance at program design and progress reviews, Engineering Development Model installations, and at-sea test planning conferences. Participation in overall program reviews shall also be required during stages from equipment formulation and validation of new concepts, through engineering design and development, test and evaluation, production, deployment, operations and final disposition of equipment being replaced. Task tracking, status of efforts toward accomplishments of milestones, and overall program feedback shall be provided via periodic status reports and trip reports.

### **III. PROGRAM MANAGEMENT**

The contractor shall maintain a management structure and management reporting system that ensures proper and timely performance, delivery, and completion of all contract requirements and individual task requirements. The contractor shall appoint a Program Manager to act as the focal point for all communications between the Contractor and Government. The Program Manager shall have overall

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responsibility for accomplishing the efforts ordered under each Technical Instruction.

The Government may schedule program and technical review meetings to review the status of programs and of any work related to this contract, and to discuss emergent problems. The Contractor shall provide personnel and technical data to support these meetings, and maintain records of the proceedings as specified in each Technical Instruction.

#### **IV. PLACE OF PERFORMANCE**

The principal place of performance shall be at the Contractor's facility and/or NSWCCD facilities. Travel may be required to various facilities including US Navy ships, shipyards, and Government and Contractor facilities. Travel requirements shall be stated in the Technical Instruction.

#### **V. DELIVERABLES**

The Contractor shall provide a monthly progress and financial status report in accordance with DD Form 1423 Exhibit A CDRL Item A001.

Technical reports and conclusions reflecting the work accomplished under each task set forth in individual Technical Instructions shall be prepared and delivered in accordance with DD Form 1423 Exhibit A CDRL Item A002, and as specified in individual Technical Instructions.

#### **VI. ACRONYM DEFINITIONS**

ACINT - Acoustic Intelligence

ADAC - Acoustic Data Analysis Center

ADADS - Advanced Digital Auxiliary Data Set

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ADAS - Acoustic Data Analysis System

AMFIP - Acoustic Measurement Facilities Improvement Program

APB - Advanced Processor Build

A-RCI - Acoustic Rapid COTS Insertion

ARD - Acoustic Research Detachment

ARMS - Acoustic Range Measurement System

ASW - Antisubmarine Warfare

ATAMS - AMFIP Towed Array Measurement System

ATAMS-NAP - ATAMS Navigation Assistance Program

ATOMS - Acoustic Trial Onboard Measurement System

BARB - Bearing and Range Box

BATTPHONE - Battery operated Hydrophone

BDC - Beamformer Data Coupling

CAL - Calibration

CAT - Common Analysis Tool

COR - Contracting Officer's Representative

COTS - Commercial Off The Shelf

CPS - Combined Processing System

D&D - Detection & Detectability

DMS - Data Measurement System

DNS - Domain Name Server

DOD - Department of Defense

DSP - Digital Signal Processing

EDM - Engineering Design Model

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EMAP - External Monitor And Playback System

ERDS - Element Recording Data System

EVM - Earned Value Management

FCCM - Federal Contract Compliance Manual

FOUO - For Official Use Only

G&A - General and Administrative

GFE - Government Furnished Equipment

GFI - Government Furnished Information

GFM - Government Furnished Material

HA - Hull Array

HFA - High Frequency Array

HGMS - High Gain Measurement Systems

IA - Information Assurance

IETM - Interactive Electronic Technical Manual

ILS - Integrated Logistic Support

IMAT - Interactive Multi-sensor Analysis Trainer

ISMS - Intermediate Scale Measurement System

IT - Information Technology

Le - Sonar self-noise

LFTS - Low Frequency Target Strength System

LSV - Large Scale Vehicle

MARS - Multi-channel Acquisition and Recording System

MERS - Miniature Element Recording System

MIS - Management Information System

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NDI - Directivity Index

NSWCCD - Naval Surface Warfare Center, Carderock Division

ODAS - Onboard Data Acquisition System

ONI - Office of Naval Intelligence

ONR - Office of Naval Research

PERT - Program Evaluation Review Technique

POA&M - Plan Of Action and Milestones

PPB - Planning, Programming and Budgeting

PPIRS - Past Performance Information Retrieval System

R&D - Research & Development

RCS - Radar Cross Section

RDT&E - Research, Development, Test and Evaluation

RNDAAS - Radiated Noise Data Acquisition and Analysis System

S&T - Science and Technology

SA - Spherical Array

SABRE-3 - Submarine Acoustic Beamformer Replacement

SAN - Storage Area Network

SASMP - Submarine Acoustic Silencing Maintenance Program

SDI - Support Data Interface

SDRS - Signal Data Recording Set

SEAFAC - Southeast Alaska Facility

SEAWOLF - Nuclear Submarine Class

SFTF - South Florida Test Facility

SLAWS - Source Localization Analysis Workstation

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SLIT - Source Localization Imaging Tool

SOCAL - Sonar Calibration

SPAWARS - Space and Naval Warfare Systems Command

SPL - Sound Pressure Level

SSBN - Submersible Ship Ballistic Nuclear

SSGN - Submersible Ship Guidance Nuclear

SSN - Submersible Ship Nuclear

SSNFS - Sonar Self Noise Field System

STA - Special Towed Array

STAFAC - South Toto Acoustic Facility

TA - Towed Array

TARPS - TUBA Acoustic Reporting and Processing System

TIU - Telemetry Interface Unit

TOMS - Third Octave Monitoring System

TOPS - TUBA On-Line Processing System

T-PEAS - TUBA Portable Element Analysis System

TPS - Tape Processing System

TSMS - Target Strength Measurement System

TS/SCI - Top Secret/Sensitive Compartmented Information

TUC - Tracking and Underwater Communication

USW - Undersea Warfare

VIRGINIA - Nuclear Submarine Class

WBS - Work Breakdown Structures

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## SECTION D PACKAGING AND MARKING

MARK FOR:

DODAAC: N00167  
 Task Order Manager (TOM)  
 David P. Sherwood  
 Code 7330  
 Naval Surface Warfare Center, Carderock Division  
 9500 MacArthur Blvd.  
 West Bethesda, MD 20817-5700  
 301-227-1351  
[david.sherwood@navy.mil](mailto:david.sherwood@navy.mil)

HQ D-2-0008 MARKING OF REPORTS (NAVSEA) (SEP 1990)

All reports delivered by the Contractor to the Government under this contract shall prominently show on the cover of the report:

- (1) name and business address of the Contractor
- (2) contract number
- (3) task order number
- (4) sponsor: \_\_\_\_\_

(Name of Individual Sponsor)

\_\_\_\_\_

(Name of Requiring Activity)

\_\_\_\_\_

(City and State)

All Deliverables shall be packaged and marked IAW Best Commercial Practice.

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## **SECTION E INSPECTION AND ACCEPTANCE**

Inspection and acceptance shall be performed at destination by the Government.

DODAAC: N00167  
Task Order Manager (TOM)  
David P. Sherwood  
Code 7330  
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9500 MacArthur Blvd.  
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301-227-1351  
[david.sherwood@navy.mil](mailto:david.sherwood@navy.mil)

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## SECTION F DELIVERABLES OR PERFORMANCE

52.211-8 TIME OF DELIVERY (JUN 1997)

(a) The Government requires delivery to be made according to the following schedule:

ITEM NO.	QUANTITY	WITHIN DAYS AFTER DATE OF TASK ORDER
4000 & 6000	1	FIVE (5) YEARS AFTER DATE OF TASK ORDER

(End of Clause)

### DELIVERY INFORMATION

FOB: Destination

SHIP TO ADDRESS:

DODAAC: N00167  
Task Order Manager (TOM)  
David P. Sherwood  
Code 7330  
Naval Surface Warfare Center, Carderock Division  
9500 MacArthur Blvd.  
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## SECTION G CONTRACT ADMINISTRATION DATA

DODAAC: N00167  
Task Order Manager (TOM)  
David P. Sherwood  
Code 7330  
Naval Surface Warfare Center, Carderock Division  
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[david.sherwood@navy.mil](mailto:david.sherwood@navy.mil)

### CAR-G11 INVOICE INSTRUCTIONS (DEC 2007) (NSWCCD)

(a) In accordance with the clause of this contract entitled “ELECTRONIC SUBMISSION OF PAYMENT REQUESTS” (DFARS 252.232-7003), the Naval Surface Warfare Center, Carderock Division (NSWCCD) will utilize the DoD Wide Area Workflow Receipt and Acceptance (WAWF) system to accept supplies/services delivered under this contract. This web-based system located at <https://wawf.eb.mil> provides the technology for government contractors and authorized Department of Defense (DoD) personnel to generate, capture and process receipt and payment-related documentation in a paperless environment. Invoices for supplies/services rendered under this contract shall be submitted electronically through WAWF. Submission of hard copy DD250/invoices may no longer be accepted for payment.

(b) It is recommended that the person in your company designated as the Central Contractor Registration (CCR) Electronic Business (EB) Point of Contact and anyone responsible for the submission of invoices, use the online training system for WAWF at <http://wawftraining.com>. The Vendor, Group Administrator (GAM), and sections marked with an asterisk in the training system should be reviewed. Vendor Quick Reference Guides also are available at <http://acquisition.navy.mil/navyaos/content/view/full/3521/>. The most useful guides are “Getting Started for Vendors” and “WAWF Vendor Guide”.

(c) The designated CCR EB point of contact is responsible for activating the company’s CAGE code on WAWF by calling 1-866-618-5988. Once the company is activated, the CCR EB point of contact will self-register under the company’s CAGE code on WAWF and follow the instructions for a group administrator. After the company is set-up on WAWF, any additional persons responsible for submitting invoices must self-register under the company’s CAGE code at <https://wawf.eb.mil>.

(d) The contractor shall use the following document types, DODAAC codes and inspection and acceptance locations when submitting invoices in WAWF:

Type of Document (*contracting officer check all that apply*)

- Invoice (FFP Supply & Service)
- Invoice and Receiving Report Combo (FFP Supply)
- Invoice as 2-in-1 (FFP Service Only)
- Cost Voucher (Cost Reimbursable, T&M , LH, or FPI)
- Receiving Report (FFP, DD250 Only)

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DODAAC Codes and Inspection and Acceptance Locations (*contracting officer complete appropriate information as applicable*)

Issue DODAAC	_____
Admin DODAAC	_____
Pay Office DODAAC	_____
Inspector DODAAC	_____
Service Acceptor DODAAC	_____
Service Approver DODAAC	_____
Ship To DODAAC	<u>See Section F</u>
DCAA Auditor DODAAC	_____
LPO DODAAC	_____
Inspection Location	<u>See Section E</u>
Acceptance Location	<u>See Section E</u>

Attachments created in any Microsoft Office product may be attached to the WAWF invoice, e.g., backup documentation, timesheets, etc. Maximum limit for size of each file is 2 megabytes. Maximum limit for size of files per invoice is 5 megabytes.

(e) Before closing out of an invoice session in WAWF, but after submitting the document(s), you will be prompted to send additional email notifications. Click on “Send More Email Notification” and add the acceptor/receiver email addresses noted below in the first email address block, and add any other additional email addresses desired in the following blocks. This additional notification to the government is important to ensure that the acceptor/receiver is aware that the invoice documents have been submitted into WAWF.

Send Additional Email Notification To:
<b>David Sherwood - david.sherwood@navy.mil</b>

(f) The contractor shall submit invoices/cost vouchers for payment per contract terms and the government shall process invoices/cost vouchers for payment per contract terms. Contractors approved by DCAA for direct billing will submit cost vouchers directly to DFAS via WAWF. Final voucher submission will be approved by the ACO.

(g) The WAWF system has not yet been implemented on some Navy programs; therefore, upon written concurrence from the cognizant Procuring Contracting Officer, the Contractor is authorized to use DFAS WinS for electronic end to end invoicing until the functionality of WinS has been incorporated into WAWF.

(h) If you have any questions regarding WAWF, please contact the WAWF helpdesk at the above 1-866 number or the NSWCCD WAWF point of contact at (301) 227-5419.

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(End of Clause)

SEA 5252.216-9122 LEVEL OF EFFORT (DEC 2000)

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in Sections B and C of this contract. The total level of effort for the performance of this contract shall be **419,740** total man-hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort.

(b) Of the total man-hours of direct labor set forth above, it is estimated that **- 0 -** man-hours are uncompensated effort.

Uncompensated effort is defined as hours provided by personnel in excess of 40 hours per week without additional compensation for such excess work. All other effort is defined as compensated effort. If no effort is indicated in the first sentence of this paragraph, uncompensated effort performed by the Contractor shall not be counted in fulfillment of the level of effort obligations under this contract.

(c) Effort performed in fulfilling the total level of effort obligations specified above shall only include effort performed in direct support of this contract and shall not include time and effort expended on such things as (local travel to and from an employee's usual work location), uncompensated effort while on travel status, truncated lunch periods, work (actual or inferred) at an employee's residence or other non-work locations (except as provided in paragraph (j) below), or other time and effort which does not have a specific and direct contribution to the tasks described in Sections B and C.

(d) The level of effort for this contract shall be expended at an average rate of approximately **1,614** hours per week. It is understood and agreed that the rate of man-hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total man-hours of effort prior to the expiration of the term hereof, except as provided in the following paragraph.

(e) If, during the term hereof, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total man hours of effort specified above would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fee together with an offer, setting forth a proposed level of effort, cost breakdown, and proposed fee, for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

(f) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total man hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.

(g) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the period of this contract, the Contracting Officer, at its sole discretion, shall either (i) reduce the fee of this contract as follows:

$$\text{Fee Reduction} = \text{Fee} \times ((\text{Required LOE} - \text{Expended LOE}) / \text{Required LOE})$$

or (ii) subject to the provisions of the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF COST (FACILITIES)" (FAR 52.232-21), as applicable, require the Contractor to continue to perform the work until the total number of man hours of direct labor specified in paragraph (a) above shall have been expended, at no increase in the fee of this contract.

(h) The Contractor shall provide and maintain an accounting system, acceptable to the Administrative Contracting Officer and the Defense Contract Audit Agency (DCAA), which collects costs incurred and effort (compensated and uncompensated, if any) provided in fulfillment of the level of effort obligations of this contract. The Contractor shall

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indicate on each invoice the total level of effort claimed during the period covered by the invoice, separately identifying compensated effort and uncompensated effort, if any.

(i) Within 45 days after completion of the work under each separately identified period of performance hereunder, the Contractor shall submit the following information in writing to the Contracting Officer with copies to the cognizant Contract Administration Office and to the DCAA office to which vouchers are submitted: (1) the total number of man hours of direct labor expended during the applicable period; (2) a breakdown of this total showing the number of man hours expended in each direct labor classification and associated direct and indirect costs; (3) a breakdown of other costs incurred; and (4) the Contractor's estimate of the total allowable cost incurred under the contract for the period. Within 45 days after completion of the work under the contract, the Contractor shall submit, in addition, in the case of a cost underrun; (5) the amount by which the estimated cost of this contract may be reduced to recover excess funds and, in the case of an underrun in hours specified as the total level of effort; and (6) a calculation of the appropriate fee reduction in accordance with this clause. All submissions shall include subcontractor information.

(j) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish man hours up to five percent in excess of the total man hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the estimated cost or fee is required.

(End of Clause)

SEA 5252.232-9104 ALLOTMENT OF FUNDS (MAY 1993)

(a) This contract is incrementally funded with respect to both cost and fee. The amount(s) presently available and allotted to this contract for payment of fee for incrementally funded contract line item number/contract subline item number (CLIN/SLIN), subject to the clause entitled "FIXED FEE" (FAR 52.216-8) or "INCENTIVE FEE" (FAR 52.216-10), as appropriate, is specified below. The amount(s) presently available and allotted to this contract for payment of cost for incrementally funded CLINs/SLINs is set forth below. As provided in the clause of this contract entitled "LIMITATION OF FUNDS" (FAR 52.232-22), the CLINs/SLINs covered thereby, and the period of performance for which it is estimated the allotted amount(s) will cover are as follows:

ESTIMATED ITEM(S)	ALLOTED TO COST	ALLOTED TO FEE	PERIOD OF PERFORMANCE
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(To be provided at the task order level at time of award)

(b) The parties contemplate that the Government will allot additional amounts to this contract from time to time for the incrementally funded CLINs/SLINs by unilateral contract modification, and any such modification shall state separately the amount(s) allotted for cost, the amount(s) allotted for fee, the CLINs/SLINs covered thereby, and the period of performance which the amount(s) are expected to cover.

(c) CLINs/SLINs are fully funded and performance under these CLINs/SLINs is subject to the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20) or "LIMITATION OF COST (FACILITIES)" (FAR 52.232-21), as applicable.

(d) The Contractor shall segregate costs for the performance of incrementally funded CLINs/SLINs from the from the costs of performance of fully funded CLINs/SLINs.

FUNDING PROFILE: It is estimated that these incremental funds will provide for the following:

Task Order Amount per CLIN as of this Action	Funding Provided under this Action	Amount Available for Payment	Amount Remaining to be Funded
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Information to be provided at the task order level at time of award

(End of Clause)

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## SECTION H SPECIAL CONTRACT REQUIREMENTS

Clause HQ C-2-0037 "Organizational Conflict of Interest" (NAVSEA) (JUL 2000) is hereby invoked in accordance with the Basic Contract.

CAR-H09 Performance-Based Acquisition Evaluation Procedures for a SeaPort e Task Order (MAR 2006) (NSWCCD)

(a) Introduction: The contractor's performance on this task order will be evaluated by the Government, in accordance with this task order clause. The first evaluation will cover the period ending twelve months after the date of task order award with successive evaluations being performed for each twelve-month period thereafter until the contractor completes performance under the task order. Based on the evaluation results, the PCO will assign an overall performance rating in accordance with paragraph (b) of this clause. The purpose of the evaluation is to determine remedies that may be invoked due to "Unsatisfactory" performance. If the PCO assigns an "Unsatisfactory" performance rating for the period evaluated, the PCO may take unilateral action, in accordance with clause 52.246-5 entitled "Inspection of Services-Cost Reimbursement", dated Apr 1984, in Section E of the base contract, to provide for a fee reduction covering the performance period evaluated. This clause provides the basis for evaluation of the contractor's performance and for determining if the fee amount should be reduced due to "Unsatisfactory" performance.

(b) Performance Ratings: The Government will evaluate the contractor's performance of the Statement of Work under the task order for each twelve month period of performance, using the measurable performance standards set forth in the Performance Requirements Summary Table in the SOW, or elsewhere in the task order, and the PCO will assign one of the following ratings:

- (1) Excellent
- (2) Very Good
- (3) Satisfactory
- (4) Unsatisfactory

The standards associated with these ratings are given in the following Table 1.

Table 1: Overall Performance Ratings

For The Evaluation Period

Overall Performance Rating	Standard
Excellent	"Excellent" ratings for all performance evaluation criteria.
Very Good	A combination of "Excellent" and "Satisfactory" ratings determined by the PCO to exceed "Satisfactory" overall.
Satisfactory	A minimum of "Satisfactory" ratings for all performance evaluation criteria.
Unsatisfactory	A rating of "Unsatisfactory" for one or more performance evaluation criteria.

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(c) Evaluation Objective: The purpose of the evaluation and the inclusion of a remedy to the Government for unsatisfactory contractor performance under this task order is to ensure that the Government receives at least “Satisfactory” overall performance.

(d) Performance Evaluation Criteria: The contractor’s performance will be evaluated on an annual basis using the criteria and standards provided for each task objective in the Performance Requirements Summary Table, and considering the criterion in Tables 2 through 4 of this task order clause.

(e) Organization: The performance evaluation organization consists of the Procuring Contracting Officer (PCO), who will serve as the Evaluation Official, and the Task Order Manager (ToM).

(1) ToM: The ToM will provide ongoing performance monitoring, evaluate task performance based on the task order Performance Requirements Summary, prepare the evaluation report, including a recommended overall performance rating, and submit the report to the PCO for final decision within thirty days after the end of the evaluation period. The ToM will maintain the written records of the contractor’s performance so that a fair and accurate evaluation is made.

(2) Procuring Contracting Officer (PCO): The PCO is responsible for properly administering the performance evaluation process, maintaining the official performance evaluation file, and making the decision about the overall performance rating and whether to reduce the fee if performance is rated as unsatisfactory.

(f) Evaluation Schedule: Each performance evaluation will cover the previous twelve months of performance. The Government will evaluate all work under the task order performed by the contractor during the twelve-month period. Following each evaluation period, the PCO (or Contract Specialist if so designated by the PCO) and the ToM will hold a meeting with the contractor’s Senior Technical Representative to review performance under the task order during the previous twelve months, including overall trends, specific problem areas, if any, and their resolution. Other Government and contractor personnel may also participate as deemed appropriate.

(g) Contractor’s Self-Evaluation: The contractor may also submit a Self-Evaluation Report for consideration. The report must include an overall performance rating for the task order, covering the evaluation period, and may include whatever information the contractor deems relevant to support that rating. The report shall not exceed two (2) pages in length.

(h) Performance Evaluation: The PCO will make the decision on the overall performance rating for the work performed under the task order within thirty days after receipt of the evaluation report from the ToM. The decision will be based upon the ToM’s recommendations, the contractor’s comments, including any Self-Evaluation Report, and any other information deemed relevant by the PCO. The PCO shall resolve disagreements between the ToM’s recommendations and the contractor’s comments/report regarding the evaluation. The PCO will provide a copy of the evaluation report, including the overall rating, to the contractor within five working days after completion of the evaluation.

(i) Contractor’s Review of the Evaluation Report: Contractors shall be given a minimum of 15 calendar days to submit comments, rebut statements, or provide additional information. The PCO shall consider the contractor’s submission and respond as appropriate. Although the PCO will consider the contractor’s comments, rebuttals, or additional information, the PCO may, or may not, change the overall rating. The decision to change the rating based on contractor input at this stage is solely at the discretion of the PCO.

(j) This performance evaluation does not replace any other requirement for evaluating contractor performance that may be required by the base contract, such as a Contractor Performance Assessment Reporting System (CPARS) report, or a Task Order Performance Evaluation (TOPE).

TABLE 2: TASK PERFORMANCE EVALUATION CRITERIA AND STANDARDS

Criterion	UNSATISFACTORY	SATISFACTORY	EXCELLENT
	Work product fails to meet Acceptable Quality Levels (AQLs) defined	Work product routinely meets Acceptable Quality Levels (AQLs)	Work product frequently exceeds Acceptable Quality Levels (AQLs)

Task Performance	in Performance Requirements Summary Table (see SOW or elsewhere in the Task Order).	defined in Performance Requirements Summary Table (see SOW or elsewhere in the Task Order).	defined in Performance Requirements Summary Table (see SOW or elsewhere in the Task Order).
Staffing	Contractor provides marginally qualified or unqualified personnel. Lapses in coverage occur regularly.	Contractor provides qualified personnel. Lapses in coverage may occasionally occur and are managed per individual task order policy.	Contractor provides highly qualified personnel. Contractor reassigns personnel to ensure proper coverage. Actual lapses in coverage occur very rarely, if ever, and are managed per individual task order policy. Contractor ensures staff training remains current.
Timeliness	Contractor frequently misses deadlines, schedules, or is slow to respond to government requests or is non-responsive to government requests.	Contractor routinely meets deadlines, schedules, and responds quickly to government requests.	Contractor always meets deadlines, schedules, and responds immediately to government requests.
Customer Satisfaction	Fails to meet customer expectations	Meets customer expectations.	Exceeds customer expectations.

TABLE 3: CONTRACT MANAGEMENT PERFORMANCE EVALUATION CRITERIA AND STANDARDS

CRITERION	UNSATISFACTORY	SATISFACTORY	EXCELLENT
Problem Resolution	Problems are unresolved, repetitive, or take excessive government effort to resolve.	Problems are resolved quickly with minimal government involvement.	Problems are non-existent or the contractor takes corrective action without government involvement.
Responsiveness	Contractor's management is unresponsive to government requests and concerns.	Contractor's management is responsive to government requests and concerns.	Contractor's management takes proactive approach in dealing with government representatives and anticipates Government concerns.
Communications	Contractor often fails to communicate with government in an effective and timely manner.	Contractor routinely communicates with government in an effective and timely manner.	Contractor takes a proactive approach such that communications are almost always clear, effective, and timely.

TABLE 4: COST EFFICIENCY PERFORMANCE EVALUATION CRITERIA AND STANDARDS

CRITERION	UNSATISFACTORY	SATISFACTORY	EXCELLENT
CostManagement	Contractor routinely fails to complete the effort within the originally agreed to estimated cost, i.e. cost overruns frequently occur.	Contractor routinely completes the effort within the originally agreed to estimated cost. Contractor provides measures for controlling all costs at estimated costs. Funds and resources are generally used in a cost-effective manner. No major resource management problems are apparent.	Reductions in direct costs to the Government below contract estimated costs are noteworthy. Contractor provides detailed cost analysis and recommendations to Government for resolution of problems identified. Funds and resources are optimally used to provide the maximum benefit for the funds and resources available. Documented savings are apparent. Reports are clear, accurate, and pro-active.
CostReporting	Reports are generally late, inaccurate incomplete or unclear.	Reports are timely, accurate, complete and clearly written. Problems and/or trends are addressed, and an analysis is also submitted.	Problems and/or trends are addressed thoroughly, and the contractor's recommendations and/or corrective plans are implemented and effective.

#### CAR H11 – CONTRACTOR PERSONNEL SECURITY REQUIREMENTS (JUL 2009)

In accordance with SECNAV M-5510.30 Chapters 5 and 6, all Contractor personnel that require access to Department of Navy (DON) information systems and/or work on-site are designated Non-Critical Sensitive/IT-II positions, which require an open investigation or favorable adjudicated National Agency Check (NACLIC) by the Industrial Security Clearance Office (DISCO). Investigations should be completed using the SF- 85 Form and the SF-87 finger print card. An interim clearance can be granted by the company Security Officer and recorded in the Joint Personnel Adjudication System (JPAS). An open investigation or favorable adjudication is required prior to issuance of a Common Access Card (CAC) card or a badge providing access to NSWCCD sites and buildings. If an unfavorable adjudication is determined by DISCO all access will be terminated.

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## SECTION I CONTRACT CLAUSES

### 52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed \$ ~~-0-~~ or the overtime premium is paid for work --

(End of Clause)

### CAR-118 TECHNICAL INSTRUCTIONS (DEC 2001)

(a) Performance of the work hereunder may be subject to written technical instructions signed by the Task Order Manager. As used herein, technical instructions are defined to include the following:

(1) Directions to the Contractor that suggest pursuit of certain lines of inquiry, shift work emphasis, fill in details or otherwise serve to accomplish the statement of work.

(2) Guidelines to the Contractor that assist in the interpretation of drawings, specifications or technical portions of work description.

(b) Technical instructions must be within the general scope of work stated in the task order. Technical instructions may not be used to :

(1) assign additional work under the task order;

(2) direct a change as defined in the "Changes" clause of the base contract;

(3) increase or decrease the contract price or estimated amount (including fee), as applicable,

the level of effort, or the time required for task order performance; or

(4) change any of the terms, conditions or specifications of the task order.

(c) If, in the opinion of the Contractor, any technical instruction calls for effort outside the scope of the task order

or is inconsistent with this requirement, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after the receipt of any such instruction. The Contractor shall not proceed with the work affected by the technical instruction unless and until the Contracting Officer notifies the Contractor that the technical instruction is within the scope of this task order.

(d) Nothing in the paragraph (c) of this clause shall be construed to excuse the Contractor from performing that portion of the task order statement of work which is not affected by the disputed technical instruction.

(End of Clause)

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## **SECTION J LIST OF ATTACHMENTS**

DD Form 254 - Contract Security Classification Specification

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## **SECTION K REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS**

The requirement for Annual Representation and Certifications at 52.204-4 applies at the basic multiple award contract (MAC) level for each Offeror. Offerors are not required to submit representation or certifications in response to this solicitation or its subsequent Task Order award, if any. All requests for representation or rerepresentation shall come from the MAC Contracting Officer in accordance with the terms of the basic contract.

The Ordering Officer will consider quoter's size/socioeconomic status as defined within the SeaPort-e portal at the following web address:

<https://auction.seaport.navy.mil/Bid/PPContractListing.aspx>

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## SECTION L INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

### 1.0 GENERAL

The purpose of this procurement is to obtain scientific, engineering, analytical, and technical management services in support of Navy and Marine signatures, signature measurement systems and technology, signature control technology, advanced signal processing, and advanced technology programs.

Offerors must submit questions requesting clarifications of the solicitation requirements via the Seaport-e portal.

Award is anticipated under this solicitation to be made upon initial proposal. Proposals shall be submitted electronically no later than the specified closing date prior to 1400 hours via the Seaport-e site. Offerors must comply with the detailed instructions for the format and content of the proposal. Proposals that do not comply may be considered non-responsive and may render the offeror ineligible for award of a task order. In order to maximize efficiency and minimize the effort involved in the proposal evaluation process, all offerors shall submit their proposals in accordance with the format presented below.

The electronic proposal shall be prepared so that if an evaluator prints the proposal it meets the following format requirements:

- 8.5 x 11 inch paper
- Single-spaced typed lines
- No graphics or pictures
- Tables are allowed for the list of key personnel
- 1 inch margins
- 12-point Times New Roman Font in text
- No hyperlinks
- Microsoft Word software
- All Microsoft Word files named with the file extension .doc
- Supporting Cost Data may contain spreadsheets in Microsoft Excel
- All Microsoft Excel files named with the file extension .xls

### 2.0 TECHNICAL PROPOSAL

The technical portion of the proposal shall be limited to thirty pages in length (excluding resumes).

The technical proposal shall not contain any reference to cost; however, information concerning labor allocation and categories, consultants, travel, materials, equipment, and past performance shall be contained in the technical proposal in sufficient detail so that the offeror's understanding of the scope of the work may be adequately evaluated.

**SECURITY REQUIREMENTS** - During performance of this task order at least two individuals proposed in these key labor categories must possess security clearance up to the level of **TOP SECRET** performance of the work under the resultant contract requires access to Top Secret/Sensitive Compartmented Information (TS/SCI), as indicated on the DD Form 254, Contract Security Classification Specification attached to the solicitation. Accordingly, the existence of a SECRET security clearance, or plans for obtaining for both the offeror's facility and secret and confidential for the required personnel shall be addressed in the technical proposal. The successful contractor not possessing the required clearances within 60 days after date of contract award may be subject to termination in accordance with Clause 52.249-6, entitled "Termination (Cost-Reimbursement)" at no cost to the Government.

The technical proposal shall be page numbered, contain a table of contents, be organized as follows, and address in detail the following areas:

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(a) **TECHNICAL COMPETENCE/UNDERSTANDING**

Offerors shall demonstrate a comprehensive technical understanding of the requirements/tasks contained in Section C “Statement of Work.” This section shall discuss, in detail, the offeror’s understanding of the goals and technical complexities in relation to the task areas in Section C.

(b) **PERSONNEL REQUIREMENTS**

During the period of this task order, all personnel in key and non-key labor categories shall be U.S. citizens holding at least a current SECRET clearance in accordance with the DD254 “Contractor Security Classification Specification” provided as an attachment to the solicitation. However, exceptions may be authorized for non-key personnel in certain categories holding a CONFIDENTIAL clearance where the work is unclassified, or classified Distribution Statement D or FOUO. Prior to being granted access to classified information a minimum of an interim clearance must be in place commensurate to the level of the classification of the work being performed.

Resumes are required to be submitted for all key personnel to be assigned to the proposed contract, with the minimum number of resumes per category as follows:

<b>KEY PERSONNEL</b>	<b>Resumes Required</b>
Principal Engineer/Scientist *	2
Sr. Systems Engineer *	3
Systems Engineer	6
Programmer	8
Acoustic Assessment Engineer	2
Acoustic Measurement Specialist *	7
Acoustician	1
Program Management Specialist	1
<b>NON-KEY PERSONNEL</b>	
Jr. Systems Engineer	n/a
Electronics Technician	n/a
Fabrication Support Technician	n/a
Engineering Analyst	n/a
Jr. Engineering Analyst	n/a
Data Processor	n/a
Program Management Analyst	n/a
Sr. Electronic Technician	n/a
Technical Typist	n/a

\*At least two individuals in Principal Engineer/Scientist, Sr. Systems Engineer, and the Acoustic Measurement Specialist labor categories must possess security clearances up to the level of top secret since performance of work under the resultant task order requires access to top secret/sensitive compartmented information (TS/SCI).

Resumes shall include the relevant qualifications, background and experience for all such key personnel in sufficient detail to demonstrate the capability of such personnel to accomplish the work described in the Statement of Work. The work history of each key person should contain experience directly related to the tasks and functions he/she is intended to perform under the proposed contract. Resumes provided for individuals under this effort shall include the following:

1. Name of Proposed Employee
2. Education Background
3. Employment History (Clearly Identify Employer and Dates of Employment)

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4. Experience Applicable to Proposed Position (Expressed in number of years)
5. Direct relevance of experience to Section C "Statement of Work"
6. Current employment Status with Offeror (provide signed letter of intent if not currently employed with the Offeror)
7. Current Security Clearance Level

Offerors shall indicate limitations on the availability of any proposed personnel, if any. If a proposed individual is currently employed by the offeror, the offeror shall discuss how they intend to cover the personnel requirements on this requirement, as well as any other contract(s) for which the proposed personnel are assigned, and indicate their availability (to work on this requirement) and their tenure. If the individual is not currently employed by the offeror, explain the rationale for proposing that person and include their letter of intent. Resumes shall be provided for all proposed subcontractor personnel and consultants, and the rationale for their use.

A summary table shall also be provided to indicate personnel qualifications and experience.

Note: If subcontractors are to be used, resumes of the key personnel shall be included in this section, with the present company affiliation clearly identified. All of the requirements of this section shall apply to the use of subcontractor personnel, as well as the prime contractor's personnel.

#### **A. Key Personnel Labor Categories:**

(1) **Principal Engineer/Scientist** should have a Ph.D. degree in engineering or science and 15 years technical experience, (or an M.S. degree in engineering or science and 21 years technical experience; or a B.S. degree in engineering or science and 25 years technical experience) with emphasis during the past 8 years in all of the following areas:

- a. Research, development, design, test, and evaluation in the areas of current state-of-the-art Navy submarine sonar systems with emphasis on data gathering systems and with emphasis on signature data acquisition, reduction, and analysis requirements.
- b. Sonar and underwater acoustic system performance evaluation requiring tradeoff analysis of alternate design approaches involving principles of underwater sound, acoustic measurements, and signal processing.
- c. System analysis of large Navy sonar radiated noise, self-noise, and structureborne noise systems including acoustical signal acquisition, transmission, telemetry and processing subsystem, and numerical and acoustic model development, implementation, and data analysis.
- d. Signal path analysis of complex acoustic acquisition and signature processing systems that involved stationary, mobile, on-board, and at-sea systems.
- e. Oversight of the production of technical documentation on all four technical areas listed above.

(2) **Sr. Systems Engineer** should have an MS degree in engineering, science, or mathematics and 10 years technical experience (or a B.S. degree in engineering, science, or mathematics and 14 years technical experience; or no degree and 22 years technical experience), with emphasis during the past 5 years in all of the following areas:

- a. Systems engineering including development, design, testing, operation, and maintenance of sonar and signature data acquisition, reduction, processing and analysis systems.
- b. Sonar system, signature acquisition and processing user interface design, specification, and programming including networking and development of communication systems with emphasis on workstations and underwater acoustic data gathering systems.
- c. Development of sonar and/or acoustic measurement systems using state-of-the-art processing techniques, workstations and operating systems, e.g. HP, PC/DOS/WINDOWS, XWindows/MOTIF, OpenGL, Windows, Linux, Linux Clusters and written in modern programming languages such as C, C++, C#, and JAVA.

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d. Submarine Sonar and TUBA signature processing system algorithm development in (1) broadband, narrowband, and transient acoustic signature, (2) beam-forming, (3) array processors, (4) tracking, (5) high-speed/real-time processing and (6) element and stave processing.

e. Technical report and document preparation, including engineering/fabrication drawings and data detailed specifications for systems, subsystems, and component elements, and test and certification plans in four technical areas listed above.

(3) **Systems Engineer** should have a BS degree in engineering, science, or mathematics and 8 years technical experience, (or no degree with 16 years technical experience) with emphasis in the past 4 years in all of the following areas:

a. Development and operation of advance signature measurement and recording systems which includes signal monitoring, signature data reduction and processing, and installation, test, and evaluation in real-time or near real-time environments.

b. Sonar systems analysis involving principles of underwater sound, signal processing of signature data, and engineering applications of acoustic theory.

c. Signature systems networking engineering, with emphasis on interprocessing between signature processing platforms including workstations and other components of acoustic signature gathering and current Navy sonar systems.

d. User interface development for sonars and acoustic signature processors involving specifications and modern object oriented programming languages and operating systems as well as the transmission of signature data across interface incorporating telemetry.

e. Technical report and documentation preparation including engineering/fabrication drawings and detailed specifications for system, subsystem, and components as related to the four technical areas above.

(4) **Programmer** should have a Bachelors degree in computer science or related field and shall have at least 5 years of extensive relevant experience in Windows, Linux, XWindows/MOTIF, OpenGL, C++, JAVA programming, SQL programming, and database design.

(5) **Acoustic Assessment Engineer** should have a BS degree in engineering, science, or mathematics and 10 years technical experience, (or no degree with 18years technical experience) with emphasis in all of the following areas:

a. Acquisition, processing, analysis, and reporting of submarine radiated noise, sonar self-noise, sonar sensitivity, and structureborne noise.

b. Definition of submarine acoustic trial objectives, and the development of technical inputs for acoustical trial agendas and the design, conduct, documentation, and presentation of special acoustical noise evaluation and studies.

c. Participation in at-sea acoustic trials in a directing or coordinating capacity.

d. Design, development, and modification of specialized acoustic information management/analysis systems and analysis and evaluation of alternative acoustic measurement techniques and systems.

e. Acoustical measurement and processing systems equipment assembly, installation, calibration, and checkout.

(6) **Acoustic Measurement Specialist** should have a high school diploma and 15 years technical experience in U.S. Navy acoustic trials and sonar systems with emphasis in all of the following areas:

a. Current Navy submarine sonar and TUBA program systems, signature data acquisition, reduction and analysis techniques, and development of acoustical sea trial plans and agendas.

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b. Development, certification, and evaluation of submarine sonar and data gathering systems including AN/BQQ-5, AN/BSY-1/2, AN/BQQ-10, AN/BQH-9(V) and other TUBA program systems, and submarine sonar calibrations and/or calibration processing.

c. Development and update of submarine at-sea operational data gathering procedures for TUBA program and/or other signature measurement systems.

d. Development, modification, installation, or operation of portable or fixed data acquisition systems interfaces to submarine sonar systems.

e. Operational support of at-sea and shore based acoustical processing systems.

(7) **Acoustician** should have a Ph.D. in engineering or science and 15 years technical experience (or MS degree in engineering or science and 21 years technical experience), with emphasis during the past 8 years in all of the following:

a. Underwater sound measurement, signal processing of underwater acoustic data, engineering application of acoustic theory, and calibration of acoustic measurement systems to determine precise absolute sound pressure level (SPL).

b. Signal processing and modeling as it relates to current Navy sonar systems, ASW, USW, and radiated/self/structureborne noise measurements.

c. Sonar array analysis and modeling using the sonar equations and engineering application of underwater acoustic theory as well as relevant oceanographic phenomena.

d. State-of-the-art sonars and ship acoustical measurement systems.

e. Technical report and document preparation in the four technical areas listed above.

(8) **Program Management Specialist** should have a BS degree and 15 years program analysis, technical management experience (or no degree with 23 years of program analysis, technical management experience), with emphasis in the following areas:

a. Program analysis and technical and program management experience with multi-disciplinary project schedule, financial, and performance data monitoring.

b. Preparation of program management documentation including development of Work Breakdown Structures (WBS), Program Evaluation Review Technique (PERT) charts, Gantt schedule and milestone charts, and Management Information System (MIS) network functions.

c. Use of other program management planning tools including formal training or 1 year experience with the Earned Value Management (EVM) Program Management tool.

d. Planning, programming and budgeting (PPB) cycle of a multi-year project involving ship acoustics, sonar, and acoustic measurement system project data/documentation compilation, formatting and analysis.

e. Plan of Action & Milestones (POA&M) preparation and development of appropriation and multi-year funding profiles, including documentation research and technical status reports and program briefing material for the areas listed above.

**B. Non-Key Personnel Labor Categories:** Although resumes are not required for non-key labor categories, a statement shall be submitted stating that the offeror has non-key personnel with the education and experience levels specified during the performance period of the task order.

(1) **Jr. Systems Engineer** shall have a BS degree in engineering or science, and 3 years experience with emphasis in the following areas:

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- a. Design, development, testing, and operation of both advanced acoustic acquisition/processing/recording systems and current Navy sonar systems/subsystems.
- b. Acoustical/sonar data acquisition, reduction, and analysis systems development including experience in object oriented design to support modular system evolution.
- c. Development, test and evaluation of data acquisition telemetry/data interface systems to the printed circuit board level.
- d. Real and near real-time analog and digital data transmission involving telemetry typical of Navy sonar systems and acoustic measurement systems.
- e. Networking and development of interprocess communication systems as related to sonar systems interface engineering for acquisition and processing environments using PC/Windows processing systems. \_

(2) **Electronics Technician** shall have 1 year technical training beyond high school and 3 years experience in the following areas:

- a. Test, calibration, maintenance and repair of electronic and electrical instrumentation for acoustical measurement systems and/or sonar equipment.
- b. Assembly, calibration, and checkout of electronic components, circuit boards, connectors, and underwater acoustic transducers.
- c. Experience in conducting and documenting electrical system tests in accordance with specified procedures as well as experience in interpreting electrical schematic diagrams.

(3) **Fabrication Support Technician** shall have 1 year technical training beyond high school and 2 years experience with emphasis in support of the fabrication, assembly, test, calibration, maintenance and repair of electronic and electrical instrumentation.

(4) **Engineering Analyst** shall have a high school diploma and 10 years technical experience in acoustical data collection, compilation, analysis, and documentation with emphasis in the following areas:

- a. Technical experience in supporting submarine and/or surface ship acoustical trials projects and trials documentation, including developing trial agendas, silencing deficiency items, acoustical trial reports, and ship silencing instructions.
- b. Incorporation of tabular and graphical outputs of sonar sensitivity radiated noise, self-noise, structureborne noise, and transient data into technical reports and documentation.
- c. Operating and maintaining acoustical databases.
- d. Experience with, and understanding of, radiated, platform, sonar self and structureborne, and transient noise.
- e. Development of presentation materials and graphics to illustrate acoustical trial results, including graphical noise analysis and documentation.

(5) **Jr. Engineering Analyst** shall have a high school diploma and 4 years technical experience in acoustical data collection, compilation, analysis, and documentation with emphasis in the following areas:

- a. Technical experience in supporting submarine and/or surface ship acoustical trials projects and trials documentation, including developing trial agendas, silencing deficiency items, acoustical trial reports, and ship silencing instructions.
- b. Incorporation of tabular and graphical outputs of sonar sensitivity, radiated noise, self-noise, structureborne

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noise, and transient data into technical reports and documentation.

- c. Operating and maintaining acoustical databases.
- d. Understanding of radiated, platform, sonar self and structureborne, and transient noise.
- e. Development of presentation materials and graphics to illustrate acoustical trial results, including graphical noise analysis and documentation.

(6) **Data Processor** shall have a high school diploma and 4 years technical experience with emphasis in the following areas:

- a. Data processing and analysis of acoustical trials data, including data from sonar calibration, target strength, radiated noise, sonar self-noise, and special RDT&E projects.
- b. Operating acoustic data processing and analysis systems, such as T-PEAS, TPS, SABRE-3, MARS, TIUs, and other PC/Windows based laboratory acoustical processing systems.
- c. Processing and production of tabular and graphical outputs of sonar sensitivity, radiated noise, self-noise, structureborne noise, and transient data for inclusion in technical reports and documentation.
- d. Performing preliminary analysis of acoustical data processing results to verify system operation and identify deficiencies or problems in the data, and prepare first-cut outputs for acoustical data analysts.

(7) **Program Management Analyst** shall have a BS or BA degree and 2 years of program analysis and documentation experience with emphasis in the following areas:

- a. Preparation and graphical presentation of Work Breakdown Structures (WBSs), Program Evaluation Review Technique (PERT) charts, Gantt schedule and milestone charts, Management Information System (MIS) diagrams, Plan of Action and Milestones (POA&M), and other program management planning tools including formal training or 1 year of experience with the Earned Value Management (EVM) Program Management tool.
- b. Preparation of technical program status reports, program briefing materials, technical documentation and other acoustic measurement system/sonar project management documentation.
- c. Multi-disciplinary project schedule, financial reporting, and performed data monitoring and assessment in support of ship acoustics and Navy sonar programs.

(8) **Sr. Electronic Technician** should have two years technical training beyond High School and 10 years technical experience with emphasis in all of the following:

- a. Prototyping, calibration, maintenance and repair of electronic and electrical instrumentation and familiarity with system electronic design.
- b. Supervision of electronics technicians and support personnel in electronic and electrical instrumentation design, prototyping, calibration, maintenance and repair.
- c. Current experience in the test and checkout of electronic and electrical instrumentation to demonstrate compliance with system specifications, and current experience in documenting the results of these tests.
- d. Electronic and electrical equipment and component specification and acquisition to support research and development and acoustical measurement programs.
- e. Preparation or supervision of the preparation of engineering drawing packages to best commercial practice or comparable standards.

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(9) **Technical Typist** shall have a high school diploma with 3 years experience.

(c) **PAST PERFORMANCE**

Provide two (2) past performance references that reflect recent relevant experience performed within the past four (4) years. Each reference should be provided in the following format:

1. Contracting Activity and address, and whether the offeror was the prime contractor or subcontractor
2. Technical representative's name and valid telephone number
3. Contract Number
4. Contract Type
5. Contract Price
6. Period of Performance
7. Brief description of program, work performed, and discussion of the relevance of the contract to this SOW.
8. Brief description of the work in regards to quality, delivery/completion, cost control, and responsiveness to the customer.

In addition, the Government may review the Government's Past Performance Information Retrieval System (PPIRS) rating of an offeror's past performance of relevant contracts. In the event the Government cannot obtain adequate PPIRS rating information regarding a particular offeror, the Government may review relevant past performance information obtained from other sources. In addition, when subcontractors/teaming partners are proposed to perform significant parts of the effort, their past performance/corporate experience shall also be evaluated.

**3.0. COST PROPOSAL** (no page limit)

The level of effort for the performance of this task order is based on a five (5) year period of performance. Offerors shall base their cost proposal on the following labor categories and hours *per year*.

	<b>Estimated Hours Per Year</b>	<b>Estimated Overtime Hours Per Year</b>
<b>KEY PERSONNEL</b>		
Principal Engineer/Scientist	4284	0
Sr. Systems Engineer	5536	20
Systems Engineer	11848	400
Programmer	15936	900
Acoustic Assessment Engineer	4000	500
Acoustic Measurement Specialist	14000	400
Acoustician	400	0
Program Management Specialist	2368	0
<b>NON-KEY PERSONNEL</b>		
Jr. Systems Engineer	5336	400

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Electronics Technician	400	0
Fabrication Support Technician	400	0
Engineering Analyst	9968	0
Jr. Engineering Analyst	400	0
Data Processor	1000	400
Program Management Analyst	2368	0
Sr, Electronic Technician	400	0
Technical Typist	2284	0
<b>TOTAL HOURS PER YEAR</b>	<b>80928</b>	<b>3020</b>

For proposal preparation, the Government has specified a Not-To-Exceed (NTE) amount of \$6,994,786.00 for CLIN 6000 Other Direct Costs (ODCs). The amount is applied to the total five (5) year task order performance period and is considered inclusive of all indirect cost rates applied by the offeror. Offerors must identify the indirect cost rate(s) that are applicable to ODCs. This is a non-fee bearing CLIN.

To assist the Government in determining cost reasonableness/realism for this effort, the offeror and its subcontractors shall provide sufficient detailed cost information with their cost proposal to make this determination. Offerors shall provide a complete breakout of all labor costs (i.e. direct labor rates, overhead, G&A, FCCM and fee). In addition, the offeror shall specify what indirect expenses (if any) are being applied to the Government specified Other Direct Costs (ODCs).

Any inconsistency, whether real or apparent between promised performance and cost or price, should be explained in the proposal. Any significant inconsistency, if unexplained, raises a fundamental issue of the understanding of the nature and scope of work required and financial ability to perform the contract and may be grounds for rejection of the offer.

The burden of proof as to cost credibility rests with the offeror.

52.211-14 NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)

Any contract awarded as a result of this solicitation will be [ ] DX rated order; [ X ] DO rated order certified for national defense use under the Defense Priorities and Allocations System (DPAS) (15 CFR 700), and the Contractor will be required to follow all of the requirements of this regulation.

(End of Provision)

TYPE OF ORDER

The Government contemplates award of a Cost Plus Fixed Fee - Level of Effort Task Order resulting from this solicitation.

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## SECTION M EVALUATION FACTORS FOR AWARD

This Task Order is reserved for only those contractors, which have {National Capital Zone} identified in section B of the MAC contract. Proposals from other contractors will not be considered.

Proposals received in response to this solicitation will be evaluated on a best value basis. Award will be made to the offeror who meets the requirements of FAR Subpart 9.1, Responsible Prospective Contractor and whose proposal will be most advantageous to the Government, estimated cost and other factors considered. The Government reserves the right to determine which proposal demonstrates the required competence for performing the requirements described herein and offers the greatest value to the Government using trade-off methodology described in FAR 15.101-1. Offerors are advised that the Government may make award to other than the low offeror or other than the offeror with highest technical rating. The Government intends to make award on the basis of initial proposals without conducting discussions, but reserves the right to conduct discussions if determined necessary.

### EVALUATION OF PROPOSALS

#### 1.0 TECHNICAL PROPOSAL:

The Technical Proposal shall be evaluated based on the following three (3) factors:

##### **Factor a: Technical Competence/Understanding**

This portion of the proposal shall be evaluated to determine the adequacy of the offeror's comprehensive technical understanding and experience of the task areas contained in Section C "Statement of Work."

##### **Factor b: Personnel Experience**

The personnel resumes submitted in response to this solicitation shall be reviewed for appropriate qualifications and experience necessary to perform the effort required in Section C "Statement of Work."

The offeror provided a statement that non-key personnel are available and can meet the requirement of the task order.

##### **Factor c: Past Performance**

In accordance with Section L, in determining the rating for the Past Performance factor, the Government will give greater consideration to contracts of similar type, scope, and complexity of work required by the RFP, and the offeror's demonstrated capability to deliver high quality products and services for those contracts. Other types of contracts may be considered as part of the past performance evaluation as well, if aspects of the past performance are deemed to have some bearing on the expected performance of the subject solicitation. Trends showing improving or deteriorating performance will

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also be considered.

**The Government has established the relative importance of the Factors as follows: Factors (a), (b), and (c) are listed in descending order of importance and together are worth more than cost.**

## **2.0 EVALUATED COST**

The evaluation of cost will be based on an analysis of the realism and completeness of the cost data. Pertinent cost information, including but not limited to DCAA recommended rates for such costs as direct labor, overhead, G&A, FCCM, etc. as necessary and appropriate, will be used to arrive at the Government determination of most probable cost to be incurred in the performance of this task order. If proposed costs are considered to be unrealistic, including labor and indirect rates, the offeror's proposed cost will be adjusted accordingly to reflect more realistic costs but will not be reflected in the task order award..

### **Basis for Award**

The relative importance of cost and technical factors will be determined by a cost-technical trade-off. The Government may pay a premium in total cost for a proposal which is ranked higher technically (see Factors a, b, c listed above). A task order will be awarded to the responsible offeror whose proposal represents the combined technical merit and cost that is most advantageous to the Government.