

2. AMENDMENT/MODIFICATION NO. 21	3. EFFECTIVE DATE 26-Sep-2014	4. REQUISITION/PURCHASE REQ. NO. 1300449262	5. PROJECT NO. (If applicable) N/A
6. ISSUED BY CODE	N00253	7. ADMINISTERED BY (If other than Item 6) CODE	S2404A

NUWC, KEYPORT DIVISION  
610 Dowell Street  
Keyport WA 98345-7610  
lara.staley@navy.mil 360-315-0689

DCMA Manassas  
14501 George Carter Way  
Chantilly VA 20151

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) SCIENCE APPLICATIONS INTERNATIONAL CORP 1710 SAIC Drive McLean VA 22102-3702		9A. AMENDMENT OF SOLICITATION NO.  9B. DATED (SEE ITEM 11)  10A. MODIFICATION OF CONTRACT/ORDER NO. N00178-04-D-4119-0004 10B. DATED (SEE ITEM 13) 29-Sep-2004
CAGE CODE 6XWA8		FACILITY CODE  <input checked="" type="checkbox"/>

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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

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

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  
SEE PAGE 2

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Monique A Klose, Contracting Officer
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
15C. DATE SIGNED	16C. DATE SIGNED 26-Sep-2014
(Signature of person authorized to sign)	BY /s/Monique A Klose (Signature of Contracting Officer)

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## GENERAL INFORMATION

The purpose of this modification is to

1. de-obligate cancelling funds.
2. add new funding to replace de-obligated funds.
3. add new SLIN 0001AM...

Accordingly, said Task Order is modified as follows: A conformed copy of this Task Order is attached to this modification for informational purposes only.

The Line of Accounting information is hereby changed as follows:

The total amount of funds obligated to the task is hereby increased from \$3,254,025.32 by \$0.00 to \$3,254,025.32.

CLIN/SLIN	Type Of Fund	From (\$)	By (\$)	To (\$)
0001AL	WCF	42,500.00	(8,380.52)	34,119.48
0001AM	Fund Type - OTHER	0.00	8,380.52	8,380.52

The total value of the order is hereby increased from \$6,234,772.32 by \$0.00 to \$6,234,772.32.

CLIN/SLIN	From (\$)	By (\$)	To (\$)
0001AL	42,500.00	(8,380.52)	34,119.48
0001AM	0.00	8,380.52	8,380.52

The Period of Performance of the following line items is hereby changed as follows:

CLIN/SLIN	From	To
0001AA		9/30/2004 - 2/28/2005
0001AB		3/1/2005 - 2/28/2006
0001AC		3/1/2005 - 2/28/2006
0001AD		3/1/2006 - 2/28/2007
0001AE		3/1/2007 - 2/29/2008
0001AF		3/1/2006 - 2/28/2007
0001AG		3/1/2006 - 2/28/2007
0001AH		3/1/2007 - 2/28/2008
0001AJ		10/17/2007 - 2/29/2008
0001AK		3/1/2007 - 2/28/2008
0001AL		3/1/2007 - 2/28/2008

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0001AM	3/1/2008 - 2/28/2009
0003AA	9/30/2004 - 2/28/2005
0003AB	3/1/2005 - 2/28/2006
0003AC	3/1/2005 - 2/28/2006
0003AD	3/1/2006 - 2/28/2007
0003AE	3/1/2007 - 2/29/2008
0003AF	3/1/2006 - 2/28/2007
0003AG	3/1/2007 - 2/28/2008
0003AH	10/17/2007 - 2/29/2008
0003AJ	3/1/2007 - 2/28/2008
0003AK	3/1/2007 - 2/28/2008

All other terms and conditions remain unchanged.

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## SECTION B SUPPLIES OR SERVICES AND PRICES

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
0001							\$5,474,992.32
0001AA	R425	Base Period - Provide Professional Software Engineering, Development, and Programming Support Services to SEA 07L1. (OPN)	1.0	LO	██████████	██████████	\$799,688.00
0001AB	R425	Option 1 - Provide Professional Software Engineering, Development, and Programming Support Services to SEA 07L1. (OPN)	1.0	LO	██████████	██████████	\$300,000.00
0001AC	R425	Option 1 - Provide Professional Software Engineering, Development, and Programming Support Services to to SEA 07L1. Modification 11 reduced funded amount to \$1,166,211.00. (OPN)	1.0	LO	██████████	██████████	\$1,592,627.00
0001AD	R425	Option 2 - Provide Professional Software Engineering, Development, and Programming Support Services to SEA 07L1. (OPN)	1.0	LO	██████████	██████████	\$1,520,678.00
0001AE	R425	Modification 14 provides incremental fundsfor this SLIN. Option 3 - Provide Professional Software Engineering, Development, and Programming Support Services to SEA 07L1. (OPN)	1.0	LO	██████████	██████████	\$669,786.96
0001AF	R425	Modification 10. Option 2 - The purpose of this SLIN is to provide additional funding for services outlinedin SLIN 0001AD. (OPN)	1.0	LO	██████████	██████████	\$66,000.00
0001AG	R425	Modification 12. Option 2 - The purpose of this SLIN is to provide additional funding for services outlinedin SLIN 0001AD. (OPN)	1.0	LO	██████████	██████████	\$40,000.00
0001AH	R425	Modification 15 provides incremental fundsfor this SLIN, specifically TaskD, paragraphs 4.9.2.2.1 and 4.9.2.2.2. Option 3 - Provide Professional Software Engineering, Development, and Programming Support Services to SEA 07L1. (WCF)	1.0	LO	██████████	██████████	\$150,000.00
0001AJ	R425	Modification 16 provides incremental fundsfor this SLIN, specifically TaskD, Web Site and Database Management for COMSUBFOR. Option 3 -	1.0	LO	██████████	██████████	\$98,906.04

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost	Fixed Fee	CPFF
		Provide Professional Software Engineering, Development, and Programming Support Services.(O&MN,N)					
0001AK	R425	Modification 19 reduces the ceiling and funded amount for this SLIN by \$85,193.68 for a new amount of \$194,806.32. Modification 17 provides incremental funds for this SLIN, specifically Task D, paragraphs 4.9.2.2.3 and 4.9.2.2.4. Option 3 - Provide Professional Software Engineering, Development, and Programming Support Services to SEA 07L1. (WCF)	1.0	LO	██████████	██████████	\$194,806.32
0001AL	R425	Modification 18 increases the funded amount for this modification by \$2,000.00. Modification 17 provides incremental funds for this SLIN, specifically Task D, paragraph 4.9.2.2.5. Option 3 - Provide Professional Software Engineering, Development, and Programming Support Services to SEA 07L1. MOD 21: Deobligate cancelling funds from \$42,500.00 by (\$8,380.52) to \$34,119.48. New funding is provided under SLIN 0001AM to replace this deobligation. (Fund Type - TBD)(WCF)	1.0	LO	██████████	██████████	\$34,119.48
0001AM	R425	MOD 21: ADD \$8,380.52 funding to replace deobligated funds under 0001AL. (Fund Type - OTHER). (Fund Type - OTHER)	1.0	LO	██████████	██████████	\$8,380.52

For ODC Items:

Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
0003					\$759,780.00
0003AA	R425	Other Direct Costs (ODCs) in support of SLIN 0001AA. (OPN)	1.0	LO	\$51,764.00
0003AB	R425	Other Direct Costs (ODCs) in support of SLIN 0001AB. Modification 12 increased funded amount by \$2,826.00 to \$82,826.00. Modification 11 reduced funded amount to \$80,000.00. (WCF)	1.0	LO	\$90,000.00
0003AC	R425	Other Direct Costs (ODCs) in support of SLIN 0001AC. Modification 11 reduces funded amount to \$64,789.00. (OPN)	1.0	LO	\$186,789.00
0003AD	R425	Other Direct Costs (ODCs) in support of SLIN 0001AD. (OPN)	1.0	LO	\$72,652.00
0003AE	R425	Modification 14 provides incremental funds for this SLIN. Other Direct Costs (ODCs) in support of SLIN 0001AE. (OPN)	1.0	LO	\$65,070.06
0003AF	R425	Modification 10. Option 2 - ODCs in support of SLIN 0001AF. (OPN)	1.0	LO	\$34,000.00

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Item	PSC	Supplies/Services	Qty	Unit	Est. Cost
0003AG	R425	Modification 20 decreases the funded amount for this SLIN by \$9,800.00. Modification 15 provides incremental funds for this SLIN, specifically Task D, paragraphs 4.9.2.2.1 and 4.9.2.2.2. Option 3 - Other Direct Costs (ODCs) in support of SLIN 0001AH. (WCF)	1.0	LO	\$162,900.00
0003AH	R425	Modification 16 provides incremental funds for this SLIN, specifically Task D, Web Site and Database Management for COMSUBFOR for ODCs in support of SLIN 0001AJ. (O&MN,N)	1.0	LO	\$2,104.94
0003AJ	R425	Modification 17 provides incremental funds specifically in support of Task D, paragraphs 4.9.2.2.3 and 4.9.2.2.4. Option 3 - Other Direct Costs (ODCs). (WCF)	1.0	LO	\$20,000.00
0003AK	R425	Modification 18 decreases funded and ceiling amount of this SLIN by \$2,000.00. Modification 17 provides incremental funds in support of Task D, paragraph 4.9.2.2.5. Option 3 - Other Direct Costs (ODCs) (WCF)	1.0	LO	\$74,500.00

NOTE 1 - For the Base Period of Performance, the period of performance shall be from date of award through 28 Feb 05.

NOTE 2 - CLINs 0001AB through 0001AD and 0003AB through 0003AD are Option Items and in no way are purchased or guaranteed under the resulting contract. Work cannot be started or performed under the Option Items without Option Exercise by the Contracting Officer. Options will be individually exercised in accordance with FAR Clause 52.217-9.

#### CONTRACT TYPE SUMMARY FOR PAYMENT OFFICE (COST TYPE) (NAVSEA) (FEB 1997)

- Item 0001 is cost type
- Item 0003 is cost only

#### PAYMENTS OF FEE(S) (LEVEL OF EFFORT) (NAVSEA) (MAY 1993)

(a) For purposes of this delivery order, "fee" means "fixed fee" in cost-plus-fixed-fee level of effort type delivery orders.

(b) The Government shall make payments to the Contractor, subject to and in accordance with the clause in this contract entitled "FIXED FEE" (FAR 52.216-8) or "INCENTIVE FEE", (FAR 52.216-10), as applicable. Such payments shall be equal to TBD% of the allowable cost of each invoice submitted by and payable to the Contractor pursuant to the clause of this contract entitled "ALLOWABLE COST AND PAYMENT" (FAR 52.216-7), subject to the withholding terms and conditions of the "FIXED FEE" or "INCENTIVE FEE" clause, as applicable (percentage of fee is based on fee dollars divided by estimated cost dollars, including facilities capital cost of money). Total fee(s) paid to the Contractor shall not exceed the fee amount(s) set forth in this contract.

(c) The fee(s) specified in SECTION B, and payment thereof, is subject to adjustment pursuant to paragraph (g) of the special contract requirement entitled "LEVEL OF EFFORT." If the fee(s) is reduced and the reduced fee(s) is less than the sum of all fee payments made to the Contractor under this contract, the Contractor shall repay the excess amount to the Government. If the final adjusted fee exceeds all fee payments made to the contractor under this contract, the Contractor shall be paid the additional amount, subject to the availability of funds. In no event shall the Government be required to pay the Contractor any amount in excess of the funds obligated under this contract at the time of the discontinuance of work.

(d) Fee(s) withheld pursuant to the terms and conditions of this contract shall not be paid until the contract has been modified to reduce the fee(s) in accordance with the "LEVEL OF EFFORT" special contract requirement, or until the Procuring Contracting Officer has advised the paying office in writing that no fee adjustment is required.

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## SECTION C DESCRIPTIONS AND SPECIFICATIONS

### 1. BACKGROUND:

Naval Undersea Warfare Center Division, Keyport (NUWCDK) is chartered and tasked to support submarine technical data and training requirements by Naval Sea Systems Command (NAVSEA) 07L. NAVSEA 07L has identified a requirement for an information access system (Technical Data Knowledge Management (TDKM)) to improve upon the current submarine community CD-ROM centric technical data distribution systems. The TDKM program effort is targeted at providing a next generation digital technical data delivery and presentation capability throughout the Navy. It will deliver tailored and configuration-assured technical data to Fleet users wherever they are deployed in the world. The objective, and expected final result of the TDKM Initiative, is to deliver, maintain, and dynamically tailor deployed digital technical data for both operational units and individual users via the Navy's NIPRNET and SIPRNET. TDKM is expected to result in major improvements to most of the submarine communities current practices regarding receiving and managing technical data in the shipboard environment.

### 2. SCOPE:

The objective of this SOW is to continue the development of a production version of a submarine force knowledge management system to dynamically tailor and maintain the deployed digital technical data for both operational units and individual users. The contractor shall provide technical and expert support to NUWCDK C411 and NAVSEA 07L, to include contractor and subcontractor support, to build upon TDKM version 2.0 and add functionality to develop TDKM version 3.0. Deliverables shall be IAW paragraph 4 of this document.

The TDKM system will feature advanced content management and control system architectures allowing for the management, versioning, and control of electronic documents at the sub-document, information object level, and also a warfare community knowledge management system for controlling the delivery of collected technical data content to end user digital libraries. End-user oriented processes will be developed to provide a virtual Web-based environment to support centralized management of Data Knowledge at the end-user locations, and to provide the individual technician a seamless, interoperable, on-line access to the User Digital Library. The user interface to the data in the library will be managed and controlled by web-based management software. This collection of information products presented by the management system will include traditional technical documents and ship and shore based generated data.

The TDKM System will provide local processing and storage requirements for technical Data Knowledge when fully implemented. User devices with network connection at the user work station/site will provide user access to the data knowledge through a Web-browser. Most of the actual processing power for the knowledge display process will be performed by the User Digital Library employing a Web-based Software Interface operating on the library server, and not by the user devices. The TDKM project will identify common data management requirements that will be used for configuration control, maintenance, and distribution of data in other Navy systems such as SNADIS, NTDPS, ATIS, etc. The data management requirements will be identified using existing standards (e.g., XML).

This Statement of Work (SOW) sets forth the work efforts required to design, develop, integrate, test, produce, prepare, and deliver TDKM software executables and associated documentation, provide technical support, provide training, develop software, and develop users manuals. This SOW includes the associated Program Management, System Engineering, Configuration Management, Quality Assurance, Software Development, Testing, Documentation, Operations Training and System Testing. The contractor is responsible for providing the necessary materials, services, and the support documentation needed to complete the tasks identified in this SOW.

### 3. REFERENCES:

#### 3.1 Approved Source Documents and Status of In-Process Source Documents

Technical Data Knowledge Management (TDKM) System Architecture Description Version 4.0 of January 15, 2004

Risk Management Guide for DOD Acquisition, Fifth Edition of June 2002 (or more recent).

Technical Data Knowledge Management (TDKM) Program Management Plan (PMP), Version 1.0, of 3 December 2003

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### 3.2 Applicable Documents

The following documents form a part of this SOW to the extent specified herein. In the event of conflict between the applicable documents and this SOW, the SOW shall take precedence. All second tier and below references cited in mandatory compliance documents shall be considered as guidance only. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

#### 3.2.1 Military Standards and Specifications - Mandatory Compliance.

MIL-PRF-29612B 31 Aug 01 Training Data Products  
MIL-PRF-49506 11 Nov 96 Logistics Management Information

#### 3.2.2 Handbooks - Guidance Only.

MIL-HDBK-61A 7 Feb 01 Configuration Management Guidance  
MIL-HDBK-502 30 May 97 Acquisition Logistics

#### 3.2.3 Non-Government Documents.

EIA649 1 Feb 99 National Consensus Standard for Configuration Management

(Application for copies of EIA documents should be addressed to Electronic Industries Alliance Corporate Engineering Department, 2500 Wilson Boulevard, Arlington, VA, 22201 or visit [www.eia.org](http://www.eia.org).)

### 4 REQUIREMENTS:

The contractor shall perform all tasks required and delineated in this SOW to design, develop, integrate, test, produce, prepare associated documentation, provide logistic support, provide technical support, provide training, develop user's manuals and deliver TDKM Version 3.0. The contractor shall provide all materials, equipment, personnel, and facilities necessary to code, build, integrate, produce, and deliver the types and quantities of deliverables specified by the contract. Implement aggressive risk management throughout the effort, including risk planning, assessment (identification and analysis), handling, and monitoring steps consistent with reference (3.1.b.)

The contractor shall provide Software Engineering, Development, Programming, and Network Support to perform technical analysis, technically support development of and/or selection of hardware and computer software, modification to existing hardware and software for TDKM systems. Provide software engineering efforts and programming support required to technically support software development and implementation in the TDKM system and components utilizing computers, electronics, and software. Provide technical support in planning, designing, coding, testing, integrating, supporting, and delivering algorithms, software (source code and executables), and computer programs for TDKM. The software development processes used for software development under this contract shall be, as a minimum, assessed at Software Engineering Institute (SEI) Capability Maturity Model (CMM) Level 3 or equivalent unless authorized by the Government.

The contractor shall provide System Design Documentation and Technical Data Support to prepare and assure that the detailed technical data documentation necessary to support system development reflects the latest design, configuration, integration, and installation concepts. The contractor shall provide Training Support in applying the engineering and analytical disciplines required to ensure that the warfighter and technical support community is provided with adequate instruction for the TDKM system.

#### 4.1 Program and Data Management

##### 4.1.1 Program Management

The contractor shall establish and maintain program management practices throughout the period of performance. Program management practices shall provide visibility into the contractors' organization and techniques used in managing the program, specifically subcontractor and data management. Documentation shall be readily available to Government representative(s) during planned visits.

##### 4.1.2 Subcontractor Management

The contractor is responsible for performance of requirements delineated in this SOW, and shall institute appropriate



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management actions relative to subcontractor performance. Requirements that are contractually specified shall apply to subcontractor performance; however, the contractor shall be accountable for compliance of subcontractors and is responsible for ensuring all deliverable products comply with the contract requirements.

#### 4.1.3 Data Management

The contractor shall establish a single, centralized system for management of all data required under this contract. The contractor, in developing information that will be furnished to the Government, shall make the maximum use of existing data and provide maximum multiple use of technical information. Specific data management functions shall include schedule control for deliverables, maintenance of deliverables, approval of deliverable format, and distribution and delivery of data products. The system shall include facilities for storage of all data developed or used for this contract and shall provide equal access to data by the Government. The contractor shall ensure all data is centrally available for Government review to ensure continuity of the system development and supporting documentation. The Government reserves the right to review all data associated with and developed for TDKM.

##### 4.1.3.1 Schedule Planning

The contractor shall maintain an accurate schedule of program events and recommend program schedules, including review and evaluation techniques, which provide for the earliest delivery schedule while at the same time satisfying all requirements in a cost effective manner. The program schedule shall include all significant events, and a Program Planning Milestone Chart shall depict major tasks and events from start to completion of the contract. The contractor shall notify the Government in writing of any anticipated or projected work stoppages or delays that will impact schedules. Schedule shall include risk identification and management including planning, assessment (identification and analysis), handling (mitigation), and monitoring steps.

##### 4.1.3.2 Assignment of Responsibility and Authority

The contractor shall identify the organizational elements responsible for conducting the activities delineated in this SOW. Responsibilities shall be assigned and clear lines of authority defined for determining and controlling the resources necessary to satisfy each element of this SOW. For the areas the contractor has identified key personnel, the contractor shall appoint, in writing, all persons filling the key personnel billets. The contractor shall notify the GOVERNMENT within ten days of any changes regarding authority, responsibility, or key personnel changes made by the contractor during the period of performance.

#### 4.2 Meetings, Formal Reviews, Conferences, and Audits

The contractor shall plan, host, attend, coordinate, support and conduct the meetings, in-process reviews, formal reviews, conferences, and audits (hereinafter called "reviews") related to TDKM development. The reviews shall be conducted at Government and/or contractor facilities. Reviews requiring demonstration and/or examination of equipment shall be conducted at the contractor's facility or designated government test laboratory (NUWC Keyport or NSWC Carderock.) The contractor shall prepare agendas and conference presentation materials, and provide minutes and reports following each review. The Government reserves the right to cancel any review or to require any review to be scheduled at critical points during the period of performance. Action item documentation, assignment of responsibility for completion and due dates shall be determined prior to adjournment of all reviews. A summary of all action items, responsible parties, and estimated completion dates shall be included with the minutes.

##### 4.2.1 Post Award Conference

A post award conference shall be held at NUWC Division Keyport within 30 calendar days after contract award at the discretion of the contracting officer. The purpose of this review is for the contractor to review and demonstrate to the Government the management procedures, provide progress assessments, review of technical and other specialty area status, and to establish schedule dates for near term critical meetings/actions. The contractor shall present management, key personnel, and program implementation processes. The post award conference shall also be used to resolve any issues with the TDKM requirements and overall plan; however, it will not be used as an opportunity to impose additional requirements. The contractor shall show and/or demonstrate evaluations of development techniques, risk analysis summary, skills, processes, and inspection techniques to be used in accomplishing each software traceability item. The review will evaluate risk resolution (on a technical, cost, and schedule basis) of the design and will assess the technical risk associated with the selected development (build) methods (processes). All single source, sole source, and diminishing source(s) shall be identified.

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#### 4.2.2 Reviews

In Process Reviews (IPR) will be held on a quarterly or as needed basis on a date and at a location mutually agreed upon. The Government reserves the right to cancel any review or to require any review to be scheduled during the period of performance. The contractor's progress, management, technical support services (if any), integrated logistics support, administrative, assurance of compliance with contract requirements, program status, funding, problem identification and resolutions shall be agenda items. Actual versus expected performance of each area shall be addressed. The contractor shall prepare presentation materials providing an overview of all agenda items. The agenda shall include the functions in the following subparagraphs, when necessary.

#### 4.3 Configuration Management Process

The contractor shall maintain a configuration management (CM) process for the control of all software configuration documentation and media representing or comprising TDKM. The principles contained in EIA-649, MIL-HDBK-61A, or equivalent industry standard methodology may be used for guidance, use of standards other than EIA-649, MIL-HDBK-61A will be reviewed and approved by the government prior to use by the contractor. The contractor shall provide their Configuration Management Plan to the Government for review. The contractor's CM process shall consist of configuration identification, configuration control, configuration status accounting, and configuration audits. Consideration for interfacing with other acquisition requirements such as design review, assurance, and other program related disciplines shall be addressed. The contractor shall designate a CM representative to serve as a primary point of contact to the Government for all CM matters. The contractor's representative shall be responsible for any subcontractor's CM efforts. The contractor shall notify the Government of any changes at the contractor's facility, which affect the contractor's established CM process.

##### 4.3.1 Configuration Identification

The contractor shall participate in a joint Government/contractor integrated team to designate traceability items (TIs) to be managed by the Government and those to be managed by the contractor at a lower level/tier. For those TIs that have been identified for Government control, the contractor shall provide form, fit, function, and interface documentation necessary for configuration status accounting. The contractor shall establish management practices for those lower level/tier TIs.

##### 4.3.2 Baseline Management

The contractor shall be responsible for maintaining the currency and accuracy of the established baseline to ensure form, fit and function of TDKM. The contractor shall establish definitive processes, which identify how the baseline will be managed/maintained. These processes shall be defined in the contractor's configuration management plan and made available for Government review.

###### 4.3.2.1 Functional Baseline

The TDKM System Architecture Description, Reference 3.1.a, establishes the functional baseline. Any issues with this baseline should be resolved at the Post Award Conference. Government approval shall be required prior to making changes to the functional baseline.

###### 4.3.2.2 Product Baseline

The contractor shall establish the product baseline by the successful completion of the Post Award Conference. The product baseline describes all the necessary functional and physical characteristics including verifications required to demonstrate that TDKM meets all required performance parameters. The contractor shall make changes to the product baseline only through the approved contractor CM process.

##### 4.3.3 Configuration Control

The contractor shall establish and maintain positive control methods and procedures that ensure the integrity and traceability of TI design throughout the life cycle of Production and deployment and establish the CM process. The contractor shall apply configuration control to established TIs and to newly developed TIs. Once baselines are established, the contractor shall not implement a design or performance change to TIs without receiving prior authorization from the oversight group. The need to deviate from the written procedures or materials contained in system software architecture documents or other technical documentation shall be requested through the approved

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contractor CM process.

#### 4.4 Testing/Verification

##### 4.4.1 Test Plan

The contractor shall prepare a Test Plan (TP) that encompasses all sub-system and system level testing. The TP shall be the top-level working document that ties all contractor and subcontracting test activities together. The Government shall review and approve the TP and all applicable updates. The following areas shall be emphasized in the TP:

- a. Test event
- b. Purpose of the test
- c. Date of test start and end
- d. Location of the test
- e. Need for Government test support, especially laboratories
- f. Overall schedule of individual tests
- g. Interoperability analysis/testing

##### 4.4.2 Contractor Support to Government Testing

The contractor shall support Government test efforts including Developmental Testing and Operational Testing by providing on-site personnel and in-house support. The contractor shall support each Government test by providing on-site maintenance, training, logistics, and technical support for the period of the test. Test support requirements will be tailored to the test being conducted. The contractor shall analyze test data, conduct failure analysis, and maintain a data tracking system throughout all test efforts. Government testing includes Joint Interoperability Certification Testing, Operational Test & Evaluation, and System Integration/Qualification Testing.

#### 4.5 Software

##### 4.5.1 Software Development Plan

The contractor shall use existing Commercial-Off-The-Shelf (COTS) and Non-Developmental Item (NDI) software and hardware products to the maximum extent possible in the development, design, integration, and production of TDKM. The contractor shall develop and implement plans for conducting software development activities when new software is developed. The plans shall include specific standards, methods, tools, actions, and responsibility associated with the development and qualification of all requirements including safety and security, Design models, Iteration plan, and Implementation Model.

##### 4.5.2 Software Testing Program

The contractor shall conduct separate software testing for all newly developed or modified COTS software in accordance with industry-standard software testing practices. Shall support user, prime contractor and Government testing activities (formal qualification tests, operational testing, field integration testing, informal tests, demonstrations, etc.) to include preparing and/or reviewing test documentation, performing tests, witnessing tests, and analyzing test results. Information shall be recorded in each of the following as required: Software Test Plan (STP); Software Test Description (STD) and Software Test Report (STR).

##### 4.5.3 Source Code and Executable Software

The contractor shall provide all applicable software source code, build files/scripts and executable software developed in support of TDKM.

##### 4.5.4 Software Transition Plan

The contractor shall provide a Software Transition Plan (STRP) to include a listing of all Software Support Environment Tools (SSET) used to develop software for TDKM. Prior to all testing, the contractor shall deliver one set of all SSET including source code, build files/scripts, and executable software developed under this contract, and licenses for Government use.

##### 4.5.5 Software Version Description

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The contractor shall provide a Software Version Description (SVD). The SVD shall identify and describe the exact version of software including the build and installation instructions of one or more Computer Software Traceability Items (CSTIs) and shall be used to release, track, and control software versions.

#### 4.5.6 Software User Documentation

The contractor shall provide software user documentation consisting of: a) Software User Manual (SUM); b) online help (where applicable); c) tutorials (where applicable); d) maintenance/administration guides (where applicable). The SUM shall describe to a hands-on software user how to install and use TDKM. It may also cover a particular aspect of software operation, such as instructions for a particular position or task. Online help will be included where applicable within the software to provide context-sensitive guidance to the user. Tutorials will be provided where applicable to demonstrate basic software usage to the user. Maintenance/administration guides will provide system administrators with instructions on the maintenance and operation of the system. Documentation shall be provided via the online system.

#### 4.5.7 System/Subsystem Design Description

The contractor shall provide a System/Subsystem Design Description (SSDD). The SSDD shall describe the system- or subsystem-wide design and the architectural design of a system or design of a system or subsystem. A verification cross reference matrix (VCRM) shall be included as an appendix. This VCRM shall trace requirements from the Performance Specification and the statement of work to the design.

#### Software Security Documentation

Security documentation is required for TDKM solutions. Though an Interim authority to Operate (IATO) is considered adequate for pilot testing software pilot applications, work towards the completion of a System Security Authorization Agreement (SSAA) complying with DITSCAP 5200.40 and other Navy regulations shall be initiated and periodically reviewed during program reviews.

#### 4.5.8 Software Maintenance

The contractor shall support release and fielding of new products (release process, documentation, training, logistics, etc.). Participate in planning for, conduct, and management of software support training with appropriate user organizations in the field. Information shall be recorded in the Software User Manual (SUM).

#### 4.6 TASK A: Development of the TDKM prototype version CY 2004.

The contractor will modify TDKM version 2.0 incorporating the additional features and functionality identified in the TDKM System Architecture Description Version 4.0, Reference (3.1.a) and develop TDKM version 3.0 incorporating these additional features and functionality. The contractor will identify and complete all documentation required to detail the configuration and users manuals that will be used in current and future upgrades/modifications. Install and evaluate TDKM Version 3.0 at selected locations. Provide technical support during independent Government testing concurrent with and/or subsequent to installation and evaluation. Collect and analyze user feedback from the installation locations and create recommendations for improvements. Support the development of one-on-one training materials for system end users and for system administrators. Support training during the installation of the system. The contractor shall plan, host, attend, coordinate, support and conduct the TDKM reviews related to development and prepare agendas and conference presentation materials, and provide minutes and reports following each review. Tailor existing 688 and Trident Class Technical documents in accordance with TDKM guidelines for the testing and analysis of the TDKM Version 3.0 in an operational environment. Documents shall be developed in accordance with the TDKM data and configuration control file models. Initiate and establish the SIPRNET connectivity at the contractor's facility to support the digital distribution of submarine technical documentation via the TDKM system via the SIPRNET.

DELIVERABLE	DUE DATE	DESCRIPTION
Program Management Plan (PMP)	Preliminary six (6) weeks after award, updates as needed and Final before 31 Jan 2005	Provided in contractor format, in electronic form. Must include elements identified in; (a) section 2.1 and subsections.

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Meeting Minutes, Conference presentation materials, etc.	As required	Provided in contractor format, in electronic form. Must include elements identified in; (a) section 2.2 and subsections.
Contractor's Configuration Management Plan	Preliminary six (6) weeks after award, updates as needed and Final before 31 Jan 2005	Provided in contractor format, in electronic form. Must include elements identified in; (a) section 2.3 and subsections.
Test Plans (TP)	Preliminary six (6) weeks after award, updates as needed and Final before 31 Jan 2005	Provided in contractor format, in electronic form. Must include elements identified in; (a) section 2.4 and subsections.
Software Artifacts and Documentation	On or before 15 Nov 2004	Provided in contractor format, in electronic form. Must include elements identified in; (a) section 2.6 and subsections.
TDKM Version 3.0 computer source code and executable software	On or before 15 Nov 2004	Provided in contractor format, in electronic form, must include in addition to features of the initial Prototype the elements determined via the TDKM System Architecture Description (Reference A) and TDKM Program Management Plan (Reference C).
Install and evaluate TDKM module Versions at selected locations	Upon completion of TDKM prototype and before 31 JAN 2005	Install TDKM at COMSUBPAC Pearl Harbor, HI; Install TDKM at SUBSCHOOL Groton, CT; Install TDKM at NSWC Carderock, MD; Install TDKM at NUWC Division Keyport, WA; Install TDKM on selected SUBPAC submarines (six for estimating purposes); Install TDKM on selected SUBLANT submarines (six for estimating purposes); Install TDKM at Guam (this event is for planning purposes and may or may not occur due to various influences per NAVSEA 07L1)

#### 4.7 TASK B: (OPTION)

Task B will consist of the development TDKM Version 4.0 including additional TDKM functionality prioritized and defined by the Fleet as outlined in Task A.

#### 4.8 TASK C: (OPTION)

Task C will consist of the development TDKM Version 5.0 including additional TDKM functionality prioritized and defined by the Fleet as outlined in Task A.

#### 4.9 TASK D: (OPTION)

4.9.1 Task D will consist of the development TDKM Version 6.0 including additional TDKM functionality prioritized and define by the Fleet as outlined in Task A.

**Replace existing paragraph 4.9 with the following change (12-03-07):**

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4.9.2 Task D will also consist of developing Keyport's upgrade to the Web Integrated Data Environment (WIDE), the Virtual In-Service Engineer (V-ISE) portal as specified in this section.

#### 4.9.2.1 Background.

As part of the Capital Purchase Program (CPP), the Naval Undersea Warfare Center Division Keyport (NUWCKPT) is procuring system, integration and design services to upgrade an existing Fleet customer capability known as the Web Integrated Data Environment (WIDE). Implementing this upgrade shall provide Fleet customers access to a vastly improved service with common software capabilities, information access, and user navigation aids that shall be aligned with NAVSEA's Next Generation In-Service Engineer (NGISE) initiative. This new service of WIDE shall be known as the Virtual In-Service Engineer (V-ISE) desktop.

The current capability, WIDE 2.0, is based on the Plumtree Corporate Portal Version 4.5WS SP1 integrated with Plumtree Collaboration Server 2.0. This current version of the Plumtree Corporate Portal is supported by a Plumtree single CPU software license; the Plumtree Collaboration Server is supported by 400 user licenses. WIDE currently has approximately 4000 internal (NUWCKPT) and external users. There are nearly 10 active Communities on WIDE with user access averaging 3000 per month for the entire WIDE. Additionally, there are on average 2500 documents downloaded and 400 uploaded on a monthly basis. WIDE is configured with SSL and DOD PKI Certificates. Access to WIDE is limited to those users with a valid DOD PKI Certificate and a WIDE Account.

V-ISE (WIDE 3.0) shall operate within NMCI to provide a web-accessible browser-based virtual desktop built on Microsoft Office Sharepoint Server 2007 or equivalent technology that provides comprehensive web-based integration with Microsoft Office products. It is anticipated that V-ISE shall continue to support the same number of users currently supported by WIDE 2.0. Additionally, it is expected that the number of user accesses, document uploads, and document downloads shall be approximately the same amount currently supported by WIDE. V-ISE shall be enabled for SSL using DOD PKI Certificates with option to login with CAC or User ID and password.

##### 4.9.2.1.1 The Problem to be solved

Characteristics of the problem to be solved are varied and include:

- In-Service Engineering Process and complementary processes are in transformation,
- Continuous training is required on evolving process, standards, policies and tools,
- Information overload and fragmented storage locations are generating information access difficulties,
- Existing legacy capability (WIDE 2.0) is relatively unused due to a variety of organizational, usability, and functionality (lack of) issues except for a core ISEA set of programs, and
- WIDE 2.0 has reached the end of its supportability lifecycle.

The Navy is undergoing transformation in regard to how it supports Fleet customers driven by initiatives such as the Navy's Distance Support implementation and Next Generation In-service Engineering. All of these initiatives have one underlying theme: to use technologies to better support the Fleet and get the correct solutions to the Sailors as quickly as possible. The Navy's In-Service Engineering Activities (ISEA) is designated by the Navy to support specific systems and equipment that are installed on Navy ships and facilities around the world. Each ISEA consists of the application of engineering, analytical, and technical disciplines and skills to establish and maintain long term engineering, operation, and maintenance support for in-service warfighting capabilities as well as the capability to modernize or introduce transformational technologies into those capabilities. ISEA personnel depend on access to technical information and applications to provide the support required by the Fleet customers. Access to this technical information and applications is often difficult because the ISEA personnel must search through multiple sources of technical information. Individually, these sources may be incomplete or may not necessarily provide all the information the ISEA requires to resolve a Fleet issue. This results in additional time and costs to deliver a solution to the Fleet customer. The ISEA personnel must be provided a better way to support the Fleet.

##### 4.9.2.1.2 The Solution

WIDE 3.0, the Virtual In-Service Engineer (V-ISE) desktop shall address these issues. V-ISE will make maximum use of web-based COTS software. Using V-ISE, an ISEA user is provided with a single location to access all

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technical information, tools, processes, and best practices to quickly solve Fleet customer issues. The intent of the V-ISE is to provide integration of otherwise separate information (engineering, technology, programmatic, logistics, etc.) into a browser-based common work environment for the In-Service Engineers and Acquisition Professionals, as well as program office and Fleet customers, which supports the business of 21st century acquisition and product life-cycle support of United States Navy systems.

V-ISE shall provide users with a single access point and an intuitive user interface (UI) featuring navigation, job aids, and other common software capabilities to support ISEA job functions. Access to ISE tools, information and data shall also be provided through multiple selectable menu categories defined in the requirements such as:

- In-Service engineering functional areas
- Technical systems unique to NUWC's mission
- NUWC programs performing a ISEA role

V-ISE shall be delivered in a web-enabled browser-based virtual desktop format (without additional client-side applications) to support geographically diverse workforces and Information Assurance requirements in a standards based method.

#### 4.9.2.2 V-ISE Development Tasks.

The delivery for this software will be broken up into two major releases or spirals:

- Spiral 1: The introduction of capability to prove the efficacy of an integrated system level solution suite designed to support a Next Generation ISE life cycle support framework divided into two releases:
  - Spiral 1a: Initial base functionality to provide the framework for Spiral 1b. (up to paragraph 4.9.2.2.2)
  - Spiral 1b: Spiral 1a plus authoritative ISEA content specified in Government approved requirements. (paragraphs 4.9.2.2.3 and beyond)
- Spiral 2: Future, follow-on development of enhancements upon successful completion of Spiral 1.

4.9.2.2.1 Software Procurement. The contractor shall provide all commercial software products required in support of this effort as identified in the V-ISE architecture, [attachment \(7\)](#). The Government shall own all software and data created under this contract that is not integral to the pre-existing COTS software to which it relates. The contractor shall identify all software and other data to be delivered with less than Unlimited Rights. The contractor is encouraged to make maximum use of existing Command and Navy resources (software licenses, hardware, infrastructure, etc.) and Government procurement vehicles.

Selected software applications shall be procured in accordance with the DoD Enterprise Services Functional Area Manager (FAM) roadmaps and the Navy Portal/Website Rationalization IPT goals for portal consolidation/migration. Microsoft Office Sharepoint Portal Server is the preferred technology as it is in use at Keyport for corporate business applications; therefore would provide similar look-and-feel for ISE users. It is also essential that the selected technology provide comprehensive web-based integration with Microsoft Office products.

Upon commercial software procurement, the contractor shall deliver software for the 5 V-ISE production servers to the government. The government will install and configure the procured software on government hardware. Until delivery of V-ISE, the contractor shall temporarily retain the software for the V-ISE development servers to support V-ISE development.

<b>Software Procurement Task Detail</b>			
	<b>Input</b>	<b>Task</b>	<b>Deliverables/CDRL</b>

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1.	Hardware and Software procurement requirements (GFI)	Procure software.	Software; ready to load on hardware.	A010
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4.9.2.2.2 Design and develop V-ISE framework and presentation layer. The contractor shall provide all software development, customization and configuration of COTS software required under this contract to design and develop the V-ISE framework, meeting the Functional Requirements of V-ISE Spiral 1a identified in [attachment \(5\)](#). The preference is for a COTS solution with minor configuration. Customization is less desirable than configuration but more desirable than the development of custom software.

The Spiral 1a effort involves creating the system level infrastructure and presentation layer for V-ISE and template-based web pages as depicted in the following diagram.

The contractor shall employ an industry accepted software engineering methodology and discipline involving, at a minimum, the following milestones to ensure project success and include key components such as detailed requirements specification represented by the System Specification (A005).

Milestone	Purpose	CDRL
Requirements Review	Detailed Requirements	· System Specification (Software Requirements, Interface Requirements) A005
Software Design Review (SDR)	Detailed Design	· System Specification A005 · Data Migration/Conversion Plan & Schedule A009
Test Readiness Review (TRR)	Test Readiness	· Test Plan A006
Initial Operational Test & Evaluation (IOT&E)	Delivery & Testing	· Source Code/Configuration Records. A004 · Operational V-ISE Software & Database A008 · Test Report A007
Initial Operational Capability (IOC)	Acceptance	· <i>Same as above</i>

Use of primarily COTS solutions may offer some appropriate tailoring of the IEEE/EIA 12207, especially in terms of documentation requirements. Use/selection of software design, development, CM or other tools is up to the contractor. Software documentation shall be provided in hard and soft copy in Microsoft Office suite format files. Artifacts produced using the contractor's development tools/platforms may be provided in the tool's specific format.

The software shall be fully tested by the contractor, in accordance with the test and evaluation master plan by an individual on the contractor's staff other than the actual developer of the code. Test results shall be recorded in the test report and in a defect-tracking database. The contractor shall fix problems identified during testing, annotate the defect-tracking database accordingly, and retest each software module completely and successfully prior to delivery to the Government. The government may accept, at its discretion, defects found during acceptance testing of the final delivery of software (e.g., a limitation in the COTS software) which are beyond the control of the contractor or which the government considers to be minor in nature.

Design and Develop V-ISE Framework and Presentation Layer Task Detail			
	Input	Task	Deliverables/CDRL



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1.	Organizational (Customer) Requirements for V-ISE (GFI)	Develop Project Plan in contractor format.	Project Plan	A001
		Provide detailed requirements for system to include new interfaces, information and data.	System Specification	A005
		Design system		
2.	Existing User Interface and/or code (GFI)  System Specification A005	Develop main V-ISE portal user interface and associated web pages and templates for ISE functional areas (Tech Data ) and program modules planned (Towed Systems, SURTASS, TILDS, PMS450E, & NFCS), Or specified in Government approved requirements.	V-ISE Presentation Layer Screens (GUI, functionality, common tools) and templates.	A011
			Source Code/Configuration Records for new interfaces.	A004

4.9.2.2.3 Build and Integrate ISEA Tool Interfaces and Tech Data & Program Modules , meeting the Functional Requirements of V-ISE Spiral 1b identified in [attachment \(6\)](#). The functional area module (web pages supporting specific ISE capability; example: configuration management) for Technical Data shall be developed by the contractor. Note that functional area modules marked “TBD” shall be identified by the government and contractor for inclusion in this task.

In addition to creating the V-ISE system infrastructure, functional area modules and program modules, the Contractor shall also create and integrate software interfaces between V-ISE and with selected legacy software applications and data sources residing on the existing WIDE infrastructure required in accordance with attachments [\(6\)](#) and [\(7\)](#). Interfaces shall be documented by the contractor in the System Specification, as mutually agreed upon by the associated system owners.

The contractor shall employ an industry accepted software engineering methodology and discipline involving, at a minimum, the following milestones to ensure project success and include key components such as detailed requirements specification represented by the System Specification (A005).

Use of primarily COTS solutions may offer some appropriate tailoring of the IEEE/EIA 12207, especially in terms of documentation requirements. Use/selection of software design, development, CM or other tools is up to the contractor. Software documentation shall be provided in hard and soft copy in Microsoft Office suite format files. Artifacts produced using the contractor’s development tools/platforms may be provided in the tool’s specific format.

The software shall be fully tested by the contractor, in accordance with the test and evaluation master plan by an individual on the contractor’s staff other than the actual developer of the code. Test results shall be recorded in the test report and in a defect-tracking database. The contractor shall fix problems identified during testing, annotate the defect-tracking database accordingly, and retest each software module completely and successfully prior to delivery to the Government. The government may accept, at its discretion, defects found during acceptance testing of the final delivery of software (e.g., a limitation in the COTS software) which are beyond the control of the contractor or which the government considers to be minor in nature.

The government shall provide the contractor with all necessary NMCI documents that pertain to V-ISE or any other requirements related to IT security on Keyport’s intranet.

The contractor shall support government certification of V-ISE.



Build & Integrate ISEA Tool Interfaces and Modules Task Detail				
	Input	Task	Deliverables/CDRL	
1.	WIDE Retained-Functionality Analysis (GFI)	<p>Generate data migration strategy.</p> <p>Create Test Plan.</p>	<p>Data Migration/Conversion Plan &amp; Schedule</p> <p>Test Plan</p>	<p>A009</p> <p>A006</p>
2.	<p>Local access to application servers (GFI)</p> <p>System Specification A005</p> <p>Original tool interfaces written in various code (mostly ASP) for current Plumtree portal (GFI)</p> <p>Database schemas and sample records. (GFI)</p>	<p>Build ISE tool interfaces to existing ISE software applications to be prioritized by the government:</p> <ul style="list-style-type: none"> <li>· DMScan exists as ASP portlet; interface shall be rebuilt for SharePoint 2007 as webpart.</li> <li>· Autonomy exists in .Net as portlet; interface shall be rebuilt for SharePoint 2007 as webpart.</li> <li>· Content@ does not exist; interface shall be built for SharePoint 2007 as webpart.</li> <li>· Comment tool exists as portlet; interface shall be built to provide ability for user comments to be attached to documents.</li> </ul>	<p>Source Code/Configuration Records.</p> <p>Interfaces installed as web parts on SharePoint Servers:</p> <ul style="list-style-type: none"> <li>- DMScan</li> <li>- Autonomy</li> <li>- Comment.doc</li> <li>- Content@</li> </ul> <p>Or specified in Government approved requirements</p>	<p>A004</p> <p>A008</p>
3.	<p>Existing User Interface and/or code (GFI)</p> <p>System Specification A005</p>	<p>Integrate all specified data and information migrated (4.9.2.2.4 Data Migration and Interoperability Testing).</p>	<p>Technical Data ISE functional area module.</p> <p>TDB ISE functional area module.</p> <p>Program Modules:</p> <ul style="list-style-type: none"> <li>- Towed Systems and related communities</li> <li>- SURTASS</li> </ul>	<p>A008</p> <p>A008</p> <p>A008</p>

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			-TILDS -PMS450E -NFCS - Or specified in Government approved requirements  Source Code/Configuration Records for new interfaces.	A004
4.	V-ISE integrated with ISE tools and external data shares/tools. A008	Test software for coding defects and correct.	Test Report  Completed software with test result logs.	A007

4.9.2.2.4 Data Migration and Interoperability Testing. The contractor shall institute a complete data management strategy in accordance with the Data Migration/ Conversion Plan & Schedule (A009) to support V-ISE system testing. The contractor shall prepare a data migration plan/strategy that includes migration of data from legacy and to-be-retired systems and is conducted in a manner to prevent, or minimize, duplicate data entry by program/project teams into the V-ISE and other systems. The contractor shall migrate 3800 users from existing communities (listed below), data, and specified functionality from the existing WIDE portal (created with Plumtree v4.5) to specified program module destinations within V-ISE:

- Towed Systems and related communities
- SURTASS
- TILDS
- PMS450E
- Naval Fires Control System (NFCS)
- Or specified in Government approved requirements

The contractor shall migrate specified information and data from existing data shares at various server locations to V-ISE in support of the Technical Data ISE functional area module not handled by software interfaces to existing legacy databases. The contractor shall migrate specified information and data from existing data shares at various server locations to V-ISE in support of new TBD ISE functional areas. Functional areas shall be specified by the government as part of the requirements specification effort. The government shall provide the contractor with appropriate data descriptions (e.g., a database schema) and a set of sample data for each interface to existing legacy databases which shall be migrated to V-ISE.

The government shall provide the contractor with all necessary IT security related documents that pertain to V-ISE at Keyport (e.g. NMCI documentation).

The contractor shall ensure, via interoperability testing, that the V-ISE operates successfully with ISE software applications, information and data stores that were identified in the V-ISE Functional Requirements, through prior both Government Furnished Information (GFI) analysis reports for the Technical Data ISE functional area module, or joint Government and contractor analysis reports from TBD ISE functional areas. The results of the integration testing shall be provided to the Government in the Interoperability Test Results Report.

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<b>Data Migration and Interoperability Testing Task Detail</b>				
	<b>Input</b>	<b>Task</b>	<b>Deliverables/CRDL</b>	
1.	<p>All Data for both users and communities including interfaces images documents and specifications written for WIDE portal (GFI)</p> <p>Access to WIDE portal, data and code. (GFI)</p> <p>Data Migration/ Conversion Plan &amp; Schedule A009</p>	<p>Migrate existing 3800 users and communities, data, and functionality from existing portal to specified program module destinations within V-ISE:</p> <ul style="list-style-type: none"> <li>· Towed Systems and related communities</li> <li>· SURTASS</li> <li>· TILDS</li> <li>· PMS450E</li> <li>· Naval Fires Control System</li> <li>· Or specified in Government approved requirements</li> </ul>	<p>Any new code, interfaces, images (to be provided by contractor), all data, users and communities installed on SharePoint Servers and in accordance with design requirements.</p>	A008
2.	<p>Technical Data Information and Data Mapping Analysis report (GFI)</p>	<p>Migrate specified information and data from existing data shares at various server locations to V-ISE for the Technical Data ISE functional area module.</p>	<p>All data installed on SharePoint Servers and accessible from the Technical Data ISE functional area and in accordance with the design requirements.</p>	A008
3.	<p>TBD Functional Area Information and Data Mapping Analysis report. (Joint contractor and Government)</p>	<p>Migrate specified information and data from existing data shares at various server locations to V-ISE for TBD ISE functional area(s).</p>	<p>All data installed on SharePoint Servers and accessible from the TBD ISE functional area and in accordance with the design requirements.</p>	A008
4.	<p>Hardware plugged in and joined to the domain; IP addresses assigned (GFI)</p> <p>Completed V-ISE program and ISE functional area modules. A008</p> <ul style="list-style-type: none"> <li>· Technical Data</li> <li>· TBD ISE functional area(s)</li> <li>· Towed Systems and</li> </ul>	<p>Perform interoperability testing for V-ISE in accordance with Test Plan(s).</p>	<p>Operational V-ISE Software and database</p> <p>Completed test result logs reported in the Interoperability Test Results Report</p> <p>Test Report</p>	A008

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- related communities
  - SURTASS
  - TILDS
  - PMS450E
  - NFCS
  - Or specified in Government approved requirements
- Source Code and Configuration Records A007
- A004

4.9.2.2.5 Provide V-ISE performance support development software and services.

4.9.2.2.5.1 Procure V-ISE Performance Support Software. The contractor shall provide all commercial software products required in support of this effort as identified in the V-ISE Performance Support software, [attachment \(8\)](#). Upon commercial software procurement, the contractor shall deliver software to the government. The government will install and configure the procured software on government hardware.

4.9.2.2.5.2 Provide V-ISE Performance Support (ePSS) system design and development support for a hybrid COTS-based performance support solution. Using government furnished use case study results, perform data analysis and prepare a media design package. Assist with design and development of equipment models using government specified COTS system modeling tools. Design and develop EPSS test and evaluation instruments. Provide analysis of technical data and/or engineering drawings to resolve system modeling issues and determine system modeling approach. This level of support will require an understanding of system/equipment behavior to address modeling issues. Provide TEAMS software user support such as assisting designers/developers with implementing TEAMS Designer functions and features, TEAMS RDS setup, and TEAMATE operation.

<b>V-ISE Performance Support Software Task Detail</b>				
	<b>Input</b>	<b>Task</b>	<b>Deliverables/CDRL</b>	
1.	Software procurement requirements	Procure software.	Software; ready to load on hardware.	A012
2.	Government furnished use case study results, EPSS requirements specification, and EPSS design specification	Perform data analysis and prepare a Use Case Analysis report and Media Design Package. Assist with design and development of equipment models using government specified COTS system modeling tools. Design and develop EPSS test and evaluation instruments.	Use Case Analysis Report	A013
			Media Design Package	A014
			EPSS test and evaluation instruments	A015

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#### 4.9.2.3 Deliverables \*

\* The Contractor shall recommend changes/tailoring to the list below, including tailoring recommendations based on level of COTS configuration vs. Customization, additional documentation, and proposed delivery schedules for the data based on the Contractor's Work Breakdown Structure (CWBS)/schedule.

CDRL #	Title	Schedule
A001	Project Plan in Contractor Provided Format	Within 15 days of execution of contract modification
A002	Status Reports, Agendas and presentation materials	Bi-weekly
A003	Meeting Minutes (As Required for each meeting, formal review, conference and audit)	As Required
A004	Source Code/Configuration Records	
A005	System Specification in Contractor Provided Format <ul style="list-style-type: none"> <li>· Includes Software Requirements</li> <li>· Includes Interface Requirements</li> <li>· Includes External Interface Designs</li> <li>· Includes Database Descriptions not covered by native SharePoint functionality</li> <li>· Includes System Implementation Description</li> <li>· Includes System Configuration Description</li> </ul>	
A006	Test Plan in Contractor Provided Format	
A007	Test Report in Contractor Provided Format	
A008	Operational V-ISE Software & Database <ul style="list-style-type: none"> <li>· Includes ISE tool interfaces: <ul style="list-style-type: none"> <li>○ DMScan</li> <li>○ Autonomy</li> <li>○ Comment.doc</li> <li>○ Content@</li> <li>○ Or specified in Government approved requirements</li> </ul> </li> <li>· Technical Data ISE functional area module</li> </ul>	

CDRL #	Title	Schedule
	<ul style="list-style-type: none"> <li>· TBD ISE functional area module(s)</li> <li>· Program modules: <ul style="list-style-type: none"> <li>○ Towed Systems and related communities</li> <li>○ SURTASS</li> <li>○ TILDS</li> <li>○ PMS450E</li> <li>○ NFCS</li> <li>○ Or specified in Government approved requirements</li> </ul> </li> </ul>	
A009	Data Migration/Conversion Plan & Schedule in Contractor Provided Format	
A010	V-ISE Framework COTS software	
A011	V-ISE Presentation Layer Screens (GUI, functionality, common tools) and Templates	
A012	V-ISE Performance Support Software and Maintenance	
A013	Use Case Analysis Report	
A014	Media Design Package	
A015	EPSS test and evaluation instruments	

#### 4.9.2.4 Task Performance Measures

Objective	Measure	Standard
<p>Software Procurement</p> <p>The contractor shall provide all commercial software products required in support of this effort.</p>	Quality and timeliness	100% of the required software is procured and delivered to the government.
<p><u>Design and develop V-ISE framework and presentation layer</u></p> <p>The contractor shall provide all software development, customization and configuration of COTS software required under this contract to design and develop V-ISE framework and presentation layer.</p>	Quality and timeliness	100% of Contractor deliverables are delivered in compliance with schedule.

<u>Build and Integrate ISEA Tool Interfaces and Tech Data &amp; Program Modules</u>  -  The contractor shall provide all software development, customization and configuration of COTS software required under this contract to build and integrate ISEA tool interfaces and Tech Data & Program Modules.	Quality and timeliness	100% of Contractor deliverables are delivered in compliance with schedule.
Provide testing services to validate the V-ISE system, Spiral 1  Each software module shall be fully tested by the contractor, in accordance with the test and evaluation master plan by an individual on the contractor's staff other than the actual developer of the code.	Quality and timeliness	Test results shall be recorded in the test report and in a defect-tracking database. The contractor shall fix 100% critical problems identified during testing, annotate the defect-tracking database accordingly, and retest each software module completely and successfully prior to delivery to the Government.
Provide V-ISE Performance Support (ePSS) system design and development support for a hybrid COTS-based performance support solution.	Quality and timeliness	All deliverables are provided by the required delivery date.  Deliverables are technically accurate, and cover requirements for up to three prototype tasks.

#### 2.9.2.5 Acceptance Criteria

V-ISE Base Functionality Requirements (Attachment 5) will be the acceptance criteria for Spiral 1a. V-ISE Organizational Requirements (Attachment 6) will be the acceptance criteria for Spiral 1b.

#### Attachment 5 – V-ISE Base Functionality Requirements

Table 1 below provides the V-ISE Spiral 1a Base Functionality Requirements.

Table 1- Spiral 1a Base Functionality Requirements

Capability Categories		V-ISE Spiral 1a Base Functionality Requirements
1.0	User Interface	Sharepoint 2007 installed and configured with a “look-and-feel” modeled after an HTML example (with style sheets, images, etc.) to be provided by the government
2.0	Users/roles	Users and roles defined in Sharepoint as per a user-to-roles matrix that the government shall provide.
3.0	Web site templates	Web site or workspace templates to support at least three functional areas TBD by the government that are sensitive to the users/roles defined in 2.0.

#### Attachment 6 – V-ISE Organizational Requirements

Table 1 below provides the V-ISE Spiral 1b Organizational Requirements beyond and in addition to those of Spiral 1a above. Additional enhancements for future spirals are listed in Table 2 for information.



TABLE 1 – V-ISE Organizational Requirements:

	Capability Categories	V-ISE Spiral 1b Organizational Requirements
1.0	V-ISE Desktop	<p>1.1 Establish a Virtual In-Service Engineering (V-ISE) Desktop residing within the NMCI network that shall provide privilege-based internal and external multiple-path access to tools, external links/references, data stores. Multiple-path access shall include functional, system, or program entry to specific views relevant to customers. In addition to those who reside within the Keyport intranet, privilege based customer access must also be provided to fleet users, program offices, Royal Australian Navy (RAN) and contractors, as determined by program requirements.</p> <p>1.2 The design shall be scalable and expandable to accommodate future Spiral architecture &amp; functionality evolutions supporting customer inputs to expand the value of V-ISE desktop. Further, the goal is to use the V-ISE desktop as the common link and entry point to data shares when possible. The V-ISE IT master plan will evolve during spiral development and will consider other Keyport In-Service Engineering and ILS Department (Code 40) NMCI Clin 27 systems with separate SSAAs.</p> <p>1.3 The V-ISE desktop shall implement a new technical data functional web site based on user requirements.</p> <p>1.4 WIDE program communities shall be transferred into the new V-ISE desktop while retaining existing functionality and content. Additional program communities will be supported through a standard template.</p> <p>1.5 ISEA system network hardware and software shall be updated with fewer network components, servers, databases and file shares to reduce recurring supportability costs and improve system performance with less down time for users.</p> <p>1.6 A fully compliant V-ISE system shall be deployed such that NMCI certification is achieved, DADMS entries are completed and documented, and IA requirements are completed and updated on a regular basis.</p>
2.0	User Interface	2.1 As per Spiral 1a requirement 1.0

	Capability Categories	V-ISE Spiral 1b Organizational Requirements
3.0	Search & Retrieval	3.1 Existing search and retrieval capability shall be implemented as a system level tool without expanding search capability, or capacity.
4.0	ISE Tools	<p>4.1 The common ISEA tool(s) from WIDE shall be moved to the new V-ISE desktop. Tools include:</p> <p>4.1.1DMSCAN (Change Paper Repository function only),</p> <p>4.1.2Search &amp; Retrieval.</p> <p>4.1.3Document Comment tool</p> <p>4.2 Transparency (embedded tool(s), functionally specified link to tools etc.) shall be improved through plain language links and references.</p>
5.0	ISE Content	<p>5.1 ISE technical data shall be consolidated to reside on a minimum number of larger files shares within the V-ISE system or by exception, other Keyport In-Service Engineering and ILS Department (Code 40) NMCI CLIN 27 systems with separate SSAA.</p> <p>5.2 File share space residing inside the V-ISE shall be provided to support ongoing program-level ISE source data and working technical content storage. An example would be the current KPWAFS1 tech data file server.</p> <p>5.3 Consolidate existing Sharepoint sites that support our ISEA technical capability into V-ISE.</p> <p>5.4 Content will reside on file servers in native format. Content access will be via the V-ISE desktop in compliance with NMCI requirements. (This requirement is still being reviewed. There is a possibility it is not an issue with Sharepoint)</p> <p>·NOTE: Spiral 1 will not fully address physical separation of source data from general file share locations but will evolve during Spiral I and II.</p>

Capability Categories		V-ISE Spiral 1b Organizational Requirements
6.0	User Access	<p>6.1 Based upon Spiral 1a requirements as the base functionality starting point.</p> <p>6.2 A common Fleet access point shall provide authoritative technical content and selected functionality (features, functions &amp; tools) in accordance with DS 2.0 requirements.</p> <p>6.3 Program and warfare center ISE/OEM access shall be provided to source technical content, working technical content and functionality (features, functions &amp; tools), based on program requirements and assigned privileges.</p>
7.0	Single Sign-On	7.1 A Single-Sign-On capability shall be provided for ISE users complying with NMCI certification and user access requirements based on program requirements and assigned privileges. (Single sign-on applicability to Fleet access is under investigation.)
8.0	Metrics	8.1 Existing capability shall be leveraged where possible to provide a metrics collection and reporting capability for V-ISE desktop usage accessible by ISE users.
9.0	Collaboration	<p>9.1 A set of virtual collaboration capabilities shall support ISE standard processes and current and planned ISEA requirements supporting:</p> <ul style="list-style-type: none"> <li>● V-ISE Service-Oriented Architecture (SOA) and integration with WARCENs.</li> <li>● Various data sharing and conferencing capabilities including real-time.</li> <li>● ISE tool(s) commonality between users.</li> <li>● Search and retrieval commonality and capability/capacity improvements.</li> </ul>

TABLE 2: Proposed enhancements for future V-ISE spiral (Spiral 2 or beyond) development:

Proposed V-ISE Future Spiral Organizational Requirements	
Process Workflow	<p>Work flow management capability shall support ISE standard processes and current and planned ISEA requirements supporting:</p> <ul style="list-style-type: none"> <li>● Self-management of project tasks and assignments at user and</li> </ul>

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		<p>project level.</p> <ul style="list-style-type: none"> <li>• Data flows between routine ISE process work flow transactions.</li> </ul>
	Search and Retrieval	Technical content shall be organized to improve access to source data and file shares. Access to technical source data shall be separated from working technical content to accommodate internal and external user access requirements. The V-ISE desktop shall restore the requested prior “hyperlink-to-drawing” retrieval capability.
	Personalization	User-selectable functionality and content access shall support ISE standard processes and current and planned ISEA requirements.
	Notifications	“Push-pull” notification capability shall support ISE standard processes and current and planned ISEA requirements.

**Attachment 7 – V-ISE Architecture**

This attachment describes the high level V-ISE architecture.

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## Attachment 8 – V-ISE Performance Support Software Requirements

The following V-ISE Performance Support Software shall be procured for Spiral 1b:

Product No.	Product	Quantity
10	QUALTECH Systems, Inc. (QSI) TEAMS Designer w/ 1-year maintenance/support	1
20	QUALTECH Systems, Inc. (QSI) TEAMATE w/ 1-year maintenance/support	2
30	QUALTECH Systems, Inc. (QSI) TEAMS RDS Professional w/ 1-year maintenance/support	1

### 5 PROGRESS REPORTS:

Provided monthly in contractor format, in electronic form: Must include the following elements: (a) Variance analysis; (b) Estimate at Completion (EAC); (c) Cost summary; (d) Schedule summary; (e) Milestone report (Progress made on each and work planned); (f) Event Report (work accomplished); (g) Problems Encountered; (h) and total funds expended.

### 6 GOVERNMENT FURNISHED PROPERTY AND INFORMATION:

#### 6.1 Government Furnished Equipment/Material.

The Government will notify the contractor of the availability of Government Furnished Equipment (GFE/GFM). Items will be provided to the contractor within 60 days of receipt of contractor's written request to the contracting officer. Proposals shall list required delivery date of GFE/GFM to meet proposed delivery schedules. The contractor shall provide for accountability, security and storage for the GFE/GFM provided. The contractor shall inspect and inventory all GFE/GFM received and identify and report any discrepancies/deficiencies within 10 days of receipt. The contractor shall provide a written request for disposition instructions for any items received which are inoperable or incorrect. The Government will forward an accountability agreement to the contractor for signature on an annual basis. The Management Control Activity is the control and coordination point for all GFE/GFM.

#### 6.2 Government Furnished Information.

No Government Furnished Information (GFI) is identified in the contract.

### 7 QUALITY ASSURANCE REQUIREMENTS:

#### 7.1 Quality Management System.

The contractor's quality management system shall ensure product conformation to contractual requirements. The contractor shall have implemented, documented, and have previously demonstrated the ability to maintain the quality management system to be used on the contract. The contractor shall make available all quality management documentation for the Government to review upon request.

### 8 SECURITY:

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TDKM will operate at the unclassified through Secret levels and will contain multiple levels of access control to ensure information is not compromised. TDKM will receive or process information according to guidelines set forth by DoD and Components, including the protection of data aggregation at a higher level as necessary. The TDKM System Security Accreditation Plan will be addressed with each Version upgrade.

#### 8.1 Security Classification of Equipment, Components, Spaces and Documents:

The Equipment, Space or Document is classified and subject to the applicable provisions of DOD 5220.22M, Industrial Security Manual; SECNAVINST 5510.36, Information Security Program Regulation (17 Mar 99); SECNAVINST 5510.30A, Personnel Security Program; NUWCDIVKPT 5510, The Information and Personnel Security Program Manual; the NUWCDIVKPT Physical Security Manual 5530; and the NUWC Information Assurance Program Manual, NUWCDIVKPT 5239. Contractor personnel supporting this task order who require access to classified Spaces, Equipment, or Documents will require a security clearance equivalent to the level of access required to complete assigned duties.

8.1.1 Spaces: Confidential and Secret

8.1.2 Equipment: Confidential and Secret

8.1.3 Documents: Confidential and Secret

#### 9 NOTES:

9.1 All technical clarifications shall be provided by the Task Order Manager (TOM).

#### 9.2 Travel Requirements:

Video Teleconferencing (VTC) will be used to the greatest extent possible although many site visits to Washington DC, field activities, and operational commands will be required. Estimates for travel are as follows:

Initial Contract period award to Feb 28 2005

From Contractor/Subcontractor Facilities to:

Destination	Persons	Trips	Days	Task(s)
Washington, DC	2	5	4	A
San Diego, CA	2	3	5	A
Honolulu, HI	2	2	7	A
Groton, CT	3	3	4	A
Guam, USA	2	1	10	A
Keyport, WA	3	2	5	A
Norfolk, VA	2	4	4	A
Kings Bay, GA	2	1	4	A
Newport, RI	2	1	4	A
Hampton, VA	2	4	4	A

Option year one CY 2005 Contract period Mar 1 2005 to Feb 28 2006

From Contractor/Subcontractor Facilities to:

Destination	Persons	Trips	Days	Task(s)
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Washington, DC	2	5	4	B
San Diego, CA	2	3	5	B
Honolulu, HI	2	2	7	B
Groton, CT	3	3	4	B
Guam, USA	2	1	10	B
Keyport, WA	3	2	5	B
Norfolk, VA	2	4	4	B
Kings Bay, GA	2	1	4	B
Newport, RI	2	1	4	B
Hampton, VA	2	6	4	B

Option year two CY 2006 Contract period Mar 1 2006 to Feb 28 2007

From Contractor/Subcontractor Facilities to:

Destination	Persons	Trips	Days	Task(s)
Washington, DC	2	3	4	C
San Diego, CA	2	2	5	C
Honolulu, HI	2	1	7	C
Groton, CT	3	2	4	C
Guam, USA	2	1	10	C
Keyport, WA	3	2	5	C
Norfolk, VA	2	2	4	C
Kings Bay, GA	2	1	4	C
Newport, RI	2	1	4	C
Hampton, VA	2	3	4	C

Option year three CY 2007 Contract period Mar 1 2007 to Feb 29 2008

From Contractor/Subcontractor Facilities to:

Destination	Persons	Trips	Days	Task(s)
Washington, DC	2	3	4	D
San Diego, CA	2	2	5	D
Honolulu, HI	2	1	7	D

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Groton, CT	3	4	D
Guam, USA	2	10	D
Keyport, WA	3	2	5
Norfolk, VA	2	2	4
Kings Bay, GA	2	1	4
Newport, RI	2	1	4
Hampton, VA	2	3	4

### 9.3 Overtime:

Overtime is not anticipated nor authorized at this time. Any overtime for task order performance must be authorized, in advance, by the Ordering Officer.

### 9.4 Data Rights

Data Rights as outlined in the main contract paragraphs HQ-2-0002 and HQ-2-0011.

### 9.5 Organizational Conflict of Interest

Organizational Conflict of Interest identification as outlined in the main contract paragraph HQ-2-0037.

THE FOLLOWING IS ADDED VIA MODIFICATION 16 TO TASK D:

**DATE: August 23, 2007**  
**STATEMENT OF WORK**  
**For**

Commander Submarine Force  
**Web Site and Database Management in Support of the**  
**Knowledge Management Program for the Submarine Force**

**PERIOD OF PERFORMANCE: Date of Issuance of modification – 29 February 2008 (Webmaster) and 01 October 2007 – 29 February 2008 (Database Mgr)**

**START DATE:** Date of Issuance of Modification

**COMPLETION DATE: Ongoing (initial period of performance for Webmaster beginning from issuance of modification to 29 February 2008; initial period of performance for Database Manager beginning from issuance of modification to 29 February 2008)**

**SHORT TITLE: Web Site and Database Management for COMSUBFOR**

## 1. Requiring Agency

**Agency:** Commander, Submarine Force (Code N7KM)

**Address:** 7958 Blandy Road  
(COMSUBFOR) N7KM  
Norfolk, VA 23551-2492



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**Client Representative (CR):** CDR Mark Merrick, COMSUBLANT N74/5

Commercial (757) 836-1164

FAX (757) 836-1799

**2. Place(s) of Performance:** COMSUBFOR, Norfolk, VA

**3. Background:** Both unclassified and classified web sites have existed at SUBFOR for years. As the Navy has identified risks to the security of web sites, requirements have been imposed across the Navy to ensure that only those authorized to have access to government web sites can gain access to the unclassified and classified web sites. Numerous databases have been developed in past years and are in use at SUBFOR. User friendly access to these databases is required by staff personnel. In addition, in order to make full use of technology to maximize implementation and use of Knowledge Management practices, SUBFOR desires to use its web sites and databases to develop effective methods of collecting, storing data and information, and accessing this information so that it can be converted into knowledge and effectively used across the Submarine Force.

**4. Objective:** The purpose of having the SUBFOR Webmaster and Database Manager is to:

- Maintain the current security controls and access to the SUBFOR web sites and databases under SUBFOR control.
- Meet all requirements required by NMCI and the U.S. Navy for Navy web sites and databases
- Develop and maintain Information Technology (IT) tools that support SUBFOR desires to make use of Knowledge Management
- Assist SUBFOR personnel in developing and using Knowledge Management tools that rely on the web sites and databases controlled by SUBFOR

**5. Description of Work:**

**5.1. Webmaster** – the Webmaster will maintain and improve the command’s unclassified and classified intranet web sites. He/she will provide tools that support sharing information in a way that will contribute to the growth of knowledge management principals in the Submarine Force, such as information sharing and collaboration. He/she will provide support to staff personnel in the use of the web sites and knowledge management efforts that relate to web site usage. He/she will continue to support the following areas currently being supported and will assist the staff with development of any new areas needed by the staff: KM forums, Lessons Learned website, Effects Based Assessments information, Diversity Mentoring, personnel/staff data, and staff training record keeping. He/she will work with the Database Manager when appropriate to provide SUBFOR personnel user friendly access to information systems for storing and retrieving data and information stored in databases and/or on web sites.

**5.2. Database Manager** – the Database Manager will be responsible for developing and maintaining SUBFOR databases. He/she will provide tools that support sharing information in a way that will contribute to the growth of knowledge management principals in the Submarine Force. He/she will provide support to staff personnel in the design and use of databases. He/she will assist SUBFOR staff personnel when requested in their efforts to design Access based applications. He/she will conduct routine maintenance to ensure safety and recoverability of

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databases. He/she will continue to support the following areas currently being supported and will assist the staff with development of any new areas needed by the staff: Personnel Figure of Merit (PFOM), the Submarine Qualification Database, the Training Figure of Merit (TFOM), Diversity Mentoring, awards, admin/personnel, and Effects Based Assessments information. He/she will work with the Webmaster when appropriate to provide SUBFOR personnel user friendly access to information systems for storing and retrieving data and information in databases.

## **6. Task Requirements**

**6.1.** In order to carry out the work assigned the Webmaster will need to meet the following:

He/she will need to be able to work with HTML, Microsoft Active Server Pages (ASP), Cascading Style Sheets (CSC), JavaScript, Microsoft SQL Server, and Microsoft Access. He/she will need to be familiar with PHP, Adobe (Macromedia) Flash, Adobe (Macromedia) Dream weaver, and Adobe Photoshop. The Webmaster must have some familiarization in creating and maintaining SQL databases, have an understanding of SQL stored procedures and triggers, be familiar with: Microsoft Access Projects (ADP) Interfaces, Microsoft .NET, primarily ASP.NET and Microsoft Visual Studio.NET. He/she must be familiar with the Navy organization and terminology and with NMCI.

**6.2.** In order to carry out the work assigned the Database Manager will need to meet the following:

He/she will need to have knowledge and proficiency with Microsoft SQL Server, including knowledge of relational database design strategies, normalization, and optimization. The work will require a knowledge and proficiency to analyze/design and implement solutions with MS Access applications and MS Access Projects. He/she will need familiarization with Microsoft Office applications, including automation between MS Access, MS Word, MS Excel. He/she should be proficient in Visual Basic for Applications (VBA). Work will require an understanding of Domain, Entity, and Referential Integrity assurance. The Database Manager will need to work with and create use-case documents involving database design. He/she will need to have significant knowledge of Triggers, Stored Procedures, T-SQL, and SQL, and be familiar with: Microsoft Access Projects (ADP) Interfaces, Microsoft .NET, primarily ASP.NET and Microsoft Visual Studio.NET. He/she will need to be able to create roles and Windows/SQL user-based permissions, and be able to create and support complex multi-level views. In order to perform his work, he will need to analyze, test, and implement database designs that support new and existing business applications. His/her work will require definition of project schedules, including milestones and estimates of project expectations. The Database Manager's work will include significant understanding of a multiple database environment, including backup and recovery strategies of the same. He/she will need to fully understand and work with the Data Transfer System (DTS), and have the ability to transfer large amounts of data between data sources on a regular basis.

## **7. Deliverables**

**7.1** Webmaster and Database Manager

**7.1.1** Monthly reports to provide:

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**7.1.1.1** Current and cumulative hours for each individual

**7.1.1.2** Current and cumulative dollars expended and remaining dollar balances

**7.2** Webmaster

**7.2.1** Continuously functioning forums on both the low and high web sites. Report only if there are problems with any of the forums' usability.

**7.2.2** Continuously functioning lessons learned site accessible to all authorized users

**7.2.3** For any new significant project not currently identified, a project plan identifying key events and milestones in its development (project requiring this to be defined by SUBFOR N7KM)

**7.2.4** Continuously functioning diversity site accessible to all authorized users

**7.2.5** Continuously functioning secure web sites that meet the needs of SUBFOR

**7.3** Database Manager

**7.3.1** Continuously functioning PFOM application

**7.3.2** Continuously functioning Awards database

**7.3.3** Continuously functioning Admin/Personnel database

**7.3.4** Properly backed up databases

**7.3.5** For any new significant project not currently identified, a project plan identifying key events and milestones in its development (project requiring this to be defined by SUBFOR N7KM)

- 8.** Periodic Status Reports summarize hours worked and funds expended each month, and the contractor's recommendations for any future or new changes. COMSUBFOR will use these reports to track the contractor's financial performance and to formulate direction for the program to include implementation tasks and new metrics.
- a) Monthly current and cumulative hours and remaining hour balances
  - b) Monthly current and cumulative dollars expended and remaining dollar balances

- 9. Government Furnished Property and Information:** The government will furnish material required to complete the task when it is deemed the most cost-effective approach by the government to accomplish the task. All residual material will be returned to the government prior to or at the completion of the contract. The government will provide any additional equipment required to complete the tasks in Paragraph (6) above. Any GFE will remain under government control at all times and will be handled under the government approved AMSEC procedures for control of government property. All residual equipment will be returned to the government prior to or at the completion of the contract.

**10. Contractor Furnished Property and Information:** N/A

- 11. Security:** AMSEC LLC's request for visit authorization when security access is required will be submitted in accordance with DOD 5220.22M (Industrial Security Manual for Safeguard of Classified Information) not later than one week prior to visit. Request shall be forwarded through COMSUBFOR, Norfolk, VA for certification of need to know by the specified COR. A security clearance level of Secret will be required for personnel working this task.

**12. Travel Required:** Plan for one trip to Bangor, WA for the Webmaster between now and the end

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of period of performance and for one trip to Groton, CT for the Database Manager between now and the end of period of performance.

#### Attachment 1 - Glossary

ATIS	Advanced Technical Information System
CM	Configuration Management
CMM	Capability Maturity Model
COTS	Commercial Off The Shelf
CSTI	Computer Software Traceability Item
DS	Distance Support
EAC	Estimate At Completion
GFE	Government Furnished Equipment
GFI	Government Furnished Information
GFM	Government Furnished Material
HSI	Human Systems Integration
IATO	Interim Authority to Operate
IAW	In Accordance With
IPR	In-Process Review
NDI	Non-Developmental Item
NSWC	Naval Surface Warfare Center
NTCSS	Navy Tactical Support System
NTDPS	Non-Tactical Data Processing System
NUWCDK	Naval Undersea Warfare Center Division Keyport
OPNAV	Office of the Chief of Naval Operations
PCD	Performance Centered Design
PM	Program Manager
PMP	Program Management Plan
SE	Systems Engineer
SEI	Software Engineering Institute
SIPRNET	Secret Internet Protocol Router Network
SNADIS	Submarine Non-tactical Application Delivery Interface System
SOA	Service Oriented Architecture
SOW	Statement of Work
SSDD	System/Subsystem Design Description
SSET	Software Support Environment Tool
SSO	Single Sign-On
STD	Software Test Description
STP	Software Test Plan
STR	Software Test Report
STrP	Software Transition Plan
SUBWEB	The Submarine Internet
SUM	Software Users Manual
SVD	Software Version Description

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TA Technical Assistant  
TDKM Technical Data Knowledge Management  
TI Traceability Item  
TOC Total Ownership Cost  
TP Test Plan  
TRAIN Training and Analysis Information Network  
VCRM Verification Cross Reference Matrix  
VTC Video Teleconferencing  
Web-ATIS Web-enabled Advanced Technical Information Support System

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## **SECTION D PACKAGING AND MARKING**

Packaging and marking shall be in accordance with Section D of the IDIQ contract.

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## **SECTION E INSPECTION AND ACCEPTANCE**

Inspection and Acceptance shall be in accordance with Section E of the IDIQ contract.

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## SECTION F DELIVERABLES OR PERFORMANCE

The periods of performance for the following Items are as follows:

0001AA	9/30/2004 - 2/28/2005
0001AB	3/1/2005 - 2/28/2006
0001AC	3/1/2005 - 2/28/2006
0001AD	3/1/2006 - 2/28/2007
0001AE	3/1/2007 - 2/29/2008
0001AF	3/1/2006 - 2/28/2007
0001AG	3/1/2006 - 2/28/2007
0001AH	3/1/2007 - 2/28/2008
0001AJ	10/17/2007 - 2/29/2008
0001AK	3/1/2007 - 2/28/2008
0001AL	3/1/2007 - 2/28/2008
0001AM	3/1/2008 - 2/28/2009
0003AA	9/30/2004 - 2/28/2005
0003AB	3/1/2005 - 2/28/2006
0003AC	3/1/2005 - 2/28/2006
0003AD	3/1/2006 - 2/28/2007
0003AE	3/1/2007 - 2/29/2008
0003AF	3/1/2006 - 2/28/2007
0003AG	3/1/2007 - 2/28/2008
0003AH	10/17/2007 - 2/29/2008
0003AJ	3/1/2007 - 2/28/2008
0003AK	3/1/2007 - 2/28/2008

### CLIN - DELIVERIES OR PERFORMANCE

The period of performance for the following firm items are from date of task order through 28 Feb 05 as follows:

0001AA from date of award through 2/28/2005  
0003AA from date of award through 2/28/2005

0001AB from 3/1/2005 through 2/28/2006  
0003AB from 3/1/2005 through 2/28/2006  
0001AC from 3/1/2005 through 2/28/2006  
0003AC from 3/1/2005 through 2/28/2006

0001AD from 3/1/2006 through 2/28/2007  
0003AD from 3/1/2006 through 2/28/2007  
0001AF from 3/1/2006 through 2/28/2007  
0003AF from 3/1/2006 through 2/28/2007

0001AG from 3/1/2006 through 2/28/2007  
0001AE from 3/1/2007 through 2/28/2008  
0003AE from 3/1/2007 through 2/28/2008  
0001AH from 3/1/2007 through 2/28/2008  
0003AG from 3/1/2007 through 2/28/2008



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## SECTION G CONTRACT ADMINISTRATION DATA

Following is a summary of the applicable accounting and appropriation data through Modification 16:

Note: For accounting data previously citing "2E" the correct designation of "2F" is reflected in the accounting data below and is applicable.

AA 741810 87YP 253 SAS7L 0 068342 2D 000000 YP0020000000 \$632,493.00  
Applied to SLIN 0001AA \$611,050.00  
Applied to SLIN 0003AA \$ 21,443.00  
Req. No. N0025340653370

AB 97X4930 NH6B 000 77777 0 000253 2F 000000 4010000KWHSP \$382,826.00  
Applied to SLIN 0001AB \$300,000.00  
Applied to SLIN 0003AB \$ 82,826.00  
Req. No. N0025350536880

AC 1751810 84TD 253 SAS7L 0 068342 2D 000000 TDCA30000000 \$1,491,000.00  
Applied to SLIN 0001AC \$1,166,211.00  
Applied to SLIN 0003AC \$ 64,789.00

Applied to SLIN 0001AE \$ 65,000.00

Applied to SLIN 0003AE \$ 55,000.00

Applied to SLIN 0001AF \$ 66,000.00

Applied to SLIN 0003AF \$ 34,000.00

Applied to SLIN 0001AG \$ 40,000.00

Req. No. N0025350763329, N0025361148821, N0025362272690, N0025371971765

AD 97X4930 NH6B 000 77777 0 000253 2F 000000 4010001RQP2P \$2,000.00

Applied to SLIN 0001AD \$1,950.00

Applied to SLIN 0003AD \$ 50.00

AE 97X4930 NH6B 000 77777 0 000253 2F 000000 4120008FG998 \$322,000.00

Applied to SLIN 0001AH \$150,000.00

Applied to SLIN 0003AG \$172,000.00

AF 1781804 60CA 000 00060 0 060951 2D WX0001 570168YN000Q \$101,000.00

Applied to SLIN 0001AJ \$98,895.06

Applied to SLIN 0003AH \$ 2,104.94

AG 97X4930 NH6B 000 77777 0 000253 2E 000000 4120008GH998 \$214,806.32

Applied to SLIN 0001AK \$194,806.32

Applied to SLIN 0003AJ \$ 20,000.00

AH 97X4930 NH6B 000 77777 0 000253 2E 000000 41100063YSOF \$117,000.00

Applied to SLIN 0001AL \$42,500.00

Applied to SLIN 0003AK \$74,500.00

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Task Order Manager

Keith Groce, Code 40V

610 Dowell Street

Keyport, WA 98345-7610

E-Mail: [Keith.Groce@navy.mil](mailto:Keith.Groce@navy.mil)

Phone: 360-315-2214

Alternate Task Order Manager

Steve Shaw, 40T

610 Dowell Street

Keyport, WA 98345

E-Mail: [Stephen.W.Shaw@navy.mil](mailto:Stephen.W.Shaw@navy.mil)

Phone: 360-315-2166

Contract Specialist

Monique Klose, 182

610 Dowell St.

Keyport, WA 98345

E-Mail: [Monique.Klose@navy.mil](mailto:Monique.Klose@navy.mil)

360-315-2215

The fill-in for the clause Submission of Invoices (Cost-Reimbursement, Time-and-Materials, Labor-Hour, or Fixed Price Incentive) (Jul 1992) is as follows:

Invoices shall be sent to the applicable DCAA office as outlined in contract N00178-04-D-4119.

A copy of every invoice shall also be provided to the Task Order Manager (TOM) and Contract Specialist at the addresses shown above or via electronic mail in .doc or .pdf form.

Accounting Data

SLINID	PR Number	Amount
0001AA	N0002404WX30958, N0025	611050.00
LLA :		
AA	741810 87YP 253 SAS7L 0 068342 2D 000000 YP0020000000	\$611,050.00
0003AA	N0002404WX30958, N0025	12942.00
LLA :		
AA	1741810 87YP 253 SAS7L 0 068342 2D 000000 YP0020000000	\$19070.00
BASE Funding 623992.00		
Cumulative Funding 623992.00		
MOD 01		
0003AA	N0002404WX30958, N0025	8501.00
LLA :		
AA	1741810 87YP 253 SAS7L 0 068342 2D 000000 YP0020000000	\$19070.00
MOD 01 Funding 8501.00		
Cumulative Funding 632493.00		
MOD 04		

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0001AB N00253-5053-6880 300000.00  
 LLA :  
 AB 97X4930 NH6B 000 77777 0 000253 2E 000000 4010000KW0K \$300,000.00

0003AB N00253-5053-6880 90000.00  
 LLA :  
 AB 97X4930 NH6B 000 77777 0 000253 2E 000000 4010000KW0K \$90,000.00

MOD 04 Funding 390000.00  
 Cumulative Funding 1022493.00

MOD 05

0001AC N00253-5076-3329, N000 1316211.00  
 LLA :  
 AC 1751810 84TD 253 SAS7L 0 068342 2D 000000 TDCA30000000 \$1,316,211.00

0003AC N00253-5076-3329, N000 186789.00  
 LLA :  
 AC 1751810 84TD 253 SAS7L 0 068342 2D 000000 TDCA30000000 \$186,789.00

MOD 05 Funding 1503000.00  
 Cumulative Funding 2525493.00

MOD 08

0003AC N00253-5076-3329 (100000.00)  
 LLA :  
 AC 1751810 84TD 253 SAS7L 0 068342 2D 000000 TDCA30000000 \$86,789.00  
 Standard Number: N0002405WX30902  
 Modification 8 reduces funding for this SLIN to \$86,789.00.

MOD 08 Funding -100000.00  
 Cumulative Funding 2425493.00

MOD 09

0001AD N00253-6055-7539 1950.00  
 LLA :  
 AD 97X4930 NH6B 000 77777 0 000253 2E 000000 4010001RQP2P \$1,950.00  
 Option 2 Exercise

0003AD N00253-6055-7639 50.00  
 LLA :  
 AD 97X4930 NH6B 000 77777 0 000253 2E 000000 4010001RQP2P \$50.00  
 Option 2 Exercise

MOD 09 Funding 2000.00  
 Cumulative Funding 2427493.00

MOD 10

0001AF N00253-6114-8821 66000.00  
 LLA :  
 AC 1751810 84TD 253 SAS7L 0 068342 2D 000000 TDCA30000000 \$66,000.00  
 Standard Number: N0002405WX30902  
 Modification 10. Option 2 - Incremental funding. Direct Cite Funds.

0003AF N00253-6114-8821 34000.00  
 LLA :  
 AC 1751810 84TD 253 SAS7L 0 068342 2D 000000 TDCA30000000 \$34,000.00  
 Standard Number: N0002405WX30902  
 Modification 10. Incremental Funding - Option 2. Direct Cite Funds.

MOD 10 Funding 100000.00  
 Cumulative Funding 2527493.00

MOD 12

0001AG N00253-6227-2690 40000.00  
 LLA :  
 AC 1751810 84TD 253 SAS7L 0 068342 2D 000000 TDCA30000000 \$40,000.00  
 Standard Number: N0002405WX30902  
 Modification 12. Incremental Funding - Option 2. Direct Cite Funds.

0003AB N00253-5053-6880 2826.00  
 LLA :  
 AB 97X4930 NH6B 000 77777 0 000253 2E 000000 4010000KWHSP \$82,826.00  
 Modification 12 increased funded amount by \$2,826.00 for a new funded amount of \$82,826.00. Modification 11 reduces the funded amount from \$90,000.00 by \$10,000.00 for a new funded amount of \$80,000.00.

MOD 12 Funding 42826.00  
 Cumulative Funding 2570319.00

MOD 14

0001AE N00253-7197-1765 65000.00

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LLA :  
AC 1751810 84TD 253 SAS7L 0 068342 2D 000000 TDCA30000000 \$65,000.00  
Standard Number: N0002405WX30902, ACRN AB  
Modification 14 provides incremental funding for this SLIN for the amount of \$65,000.00. Funding provided is Direct Cite Funds.

0003AE N00253-7197-1765 55000.00

LLA :  
AC 1751810 84TD 253 SAS7L 0 068342 2D 000000 TDCA30000000 \$55,000.00  
Standard Number: N0002405WX30902, ACRN AB  
Modification 14 provides incremental funding for this SLIN in the amount of \$55,000.00. Funding provided is Direct Cite Funds.

MOD 14 Funding 120000.00  
Cumulative Funding 2690319.00

MOD 15

0001AH N00253-7248-4785 150000.00

LLA :  
AE 97X4930 NH6B 000 77777 0 000253 2E 000000 4120008FG998 \$150,000.00  
Modification 15 provides incremental funding for this SLIN in the amount of \$150,000.00 for paragraph 4.9.2.

0003AG N00253-7248-4785 172700.00

LLA :  
AE 97X4930 NH6B 000 77777 0 000253 2E 000000 4120008FG998 \$172,700.00  
Modification 15 provides funding for this SLIN in the amount of \$172,700.00 for paragraph 4.9.2.

MOD 15 Funding 322700.00  
Cumulative Funding 3013019.00

MOD 16

0001AJ N00253-7275-3578 98895.06

LLA :  
AF 1781804 60CA 000 00060 0 060951 2D WX0001 570168YN000Q \$98,895.06  
Standard Number: V5701608WX0001, ACRN: AA  
Modification 16 provides incremental funding for Task D, Web Site and Database Management for Knowledge Management Program.

0003AH N00253-7275-3578 2104.94

LLA :  
AF 1781804 60CA 000 00060 0 060951 2D WX0001 570168YN000Q \$2,104.94  
Standard Number: V5701608WX0001, ACRN: AA  
Modification 16 provides incremental funding for Task D, Web Site and Database Management for Knowledge Management Program.

MOD 16 Funding 101000.00  
Cumulative Funding 3114019.00

MOD 17

0001AK N00253-7311-1254 280000.00

LLA :  
AG 97X4930 NH6B 000 77777 0 000253 2E 000000 4120008GH998 \$280,000.00  
Modification 17 provides incremental funds for this SLIN, specifically Task D, paragraphs 4.9.2.2.3 and 4.9.2.2.4.

0001AL N00253-7325-3687 40500.00

LLA :  
AH 97X4930 NH6B 000 77777 0 000253 2E 000000 41100063YSOF \$40,500.00  
Modification 17 provides incremental funds for this SLIN, specifically Task D, paragraphs 4.9.2.2.5.

0003AJ N00253-7311-1254 20000.00

LLA :  
AG 97X4930 NH6B 000 77777 0 000253 2E 000000 4120008GH998 \$20,000.00  
Modification 17 provides incremental funding in support of Task D, paragraphs 4.9.2.2.3 and 4.9.2.2.4.

0003AK N00253-7325-3687 76500.00

LLA :  
AH 97X4930 NH6B 000 77777 0 000253 2E 000000 41100063YSOF \$76,500.00  
Modification 17 provides incremental funds in support of Task D, paragraph 4.9.2.2.5.

MOD 17 Funding 417000.00  
Cumulative Funding 3531019.00

MOD 18

0001AL N00253-7325-3687 2000.00

LLA :  
AH 97X4930 NH6B 000 77777 0 000253 2E 000000 41100063YSOF \$42,500.00  
Modification 18 increases the funded amount by \$2,000.00. Modification 17 provides incremental funds for this SLIN, specifically Task D, paragraphs 4.9.2.2.5.

0003AK N00253-7325-3687 (2000.00)

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LLA :  
 AH 97X4930 NH6B 000 77777 0 000253 2E 000000 41100063YSOF \$74,500.00  
 Modification 18 decreases funded amount by \$2,000.00. Modification 17 provides incremental funds in support of Task D, paragraph 4.9.2.2.5.

MOD 18 Funding 0.00  
 Cumulative Funding 3531019.00

MOD 19

0001AK N00253-7311-1254 (85193.68)

LLA :  
 AG 97X4930 NH6B 000 77777 0 000253 2E 000000 4120008GH998 \$194,806.32  
 Modification 19 reduces the funded amount to \$194,806.32. Modification 17 provides incremental funds for this SLIN, specifically Task D, paragraphs 4.9.2.2.3 and 4.9.2.2.4.

MOD 19 Funding -85193.68  
 Cumulative Funding 3445825.32

MOD 20

0003AG N00253-7248-4785 (9800.00)

LLA :  
 AE 97X4930 NH6B 000 77777 0 000253 2E 000000 4120008FG998  
 Modification 20 reduces the funded amount of this SLIN to \$162,900.00.  
 Modification 15 provides funding for this SLIN in the amount of \$172,700.00 for paragraphs 4.9.2.2.1 and 4.9.2.2.2.

MOD 20 Funding -9800.00  
 Cumulative Funding 3436025.32

MOD 21

0001AL N00253-7325-3687 (8380.52)

LLA :  
 AH 97X4930 NH6B 000 77777 0 000253 2E 000000 41100063YSOF \$42,500.00  
 Modification 18 increases the funded amount by \$2,000.00. Modification 17 provides incremental funds for this SLIN, specifically Task D, paragraphs 4.9.2.2.5.  
 MOD 21: Deobligate cancelling funds from \$42,500.00 by (\$8,380.52) to \$34,119.48.  
 New funding is provided under SLIN 0001AM to replace this deobligation. (Fund Type - TBD)

0001AM 130044926200001 8380.52

LLA :  
 AJ 97X4930 NH6B 252 77777 0 050120 2F 000000 A00002455844  
 MOD 21: ADD \$8,380.52 funding to replace deobligated funds under 0001AL. (Fund Type - TBD).

MOD 21 Funding 0.00  
 Cumulative Funding 3436025.32

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## SECTION H SPECIAL CONTRACT REQUIREMENTS

Clause HQ C-2-0037 Organization Conflict of Interest (NAVSEA)(JUL 2000) in Section H of the IDIQ contract is applicable to this effort.

NAVSEA 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 8,796 hours under CLIN 0001AA; 22,542 hours under Option CLIN 0001AB; 17,020 hours under Option CLIN 0001AD; and 14,516 hours under Option CLIN 0001AE. The hours include 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 (Offeror to fill-in) 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 N/A 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:

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

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.

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(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 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) Unless the Contracting Officer determines that alternative worksite arrangements are detrimental to contract performance, the Contractor may perform up to 10% of the hours at an alternative worksite, provided the Contractor has a company-approved alternative work plan. The primary worksite is the traditional "main office" worksite. An alternative worksite means an employee's residence or a telecommuting center. A telecommuting center is a geographically convenient office setting as an alternative to an employee's main office. The Government reserves the right to review the Contractor's alternative worksite plan. In the event performance becomes unacceptable, the Contractor will be prohibited from counting the hours performed at the alternative worksite in fulfilling the total level of effort obligations of the contract. Regardless of work location, all contract terms and conditions, including security requirements and labor laws, remain in effect. The Government shall not incur any additional cost nor provide additional equipment for contract performance as a result of the Contractor's election to implement an alternative worksite plan.

(k) 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.

NAVSEA 5252.232-9104 -- ALLOTMENT OF FUNDS (MAY 1993)

(a) This task order is incrementally funded with respect to both cost and fee. The amount(s) presently available and allotted to this task order 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 task order 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:

ITEM	ALLOTED TO COST	ALLOTED TO FIXED FEE	ALLOTED TO AWARD FEE	CPFF	M/HS	EST. POP
0001AA	██████████	██████████	0.00	611,050.00	0.00	09/30/2004 - 02/28/2005
0001AC	████████████████████		0.00	1,166,211.00	0.00	03/01/2005 - 02/28/2006
0001AD	██████████	██████████	0.00	1,950.00	0.00	03/01/2006 -

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						02/28/2007
						03/01/2007
0001AE	████████	████████	0.00	65,000.00	0.00	-
						02/29/2008
						10/17/2007
0001AJ	████████	████████	0.00	98,895.06	0.00	-
						02/29/2008
						09/30/2004
0003AA	0.00	0.00	0.00	21,443.00	0.00	-
						02/28/2005
						03/01/2005
0003AB	0.00	0.00	0.00	82,826.00	0.00	-
						02/28/2006
						03/01/2005
0003AC	0.00	0.00	0.00	64,789.00	0.00	-
						02/28/2006
						03/01/2006
0003AD	0.00	0.00	0.00	50.00	0.00	-
						02/28/2007
						03/01/2007
0003AE	0.00	0.00	0.00	55,000.00	0.00	-
						02/29/2008

(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 task order 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) CLIN(s)/SLIN(s) 0001AB, 0001AF, 0001AG, 0003AF are fully funded and performance under CLIN(s)/SLIN(s) 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 costs of performance of fully funded CLINs/SLINs.



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## SECTION I CONTRACT CLAUSES

### 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 ten (10) days prior to contract expiration; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least thirty (30) days 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 four years.

(End of clause)

52.222-41 Service Contract Act (1965)

52.222-41 Service Contract Act (1965)

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## **SECTION J LIST OF ATTACHMENTS**

Attachment 3 - DD Form 254

Attachment 4 - GFP List

Attachment 5 - Modification 15, 4.9.2 PWS Graphics