

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE U	PAGE OF PAGES 1   2
2. AMENDMENT/MODIFICATION NO. 13	3. EFFECTIVE DATE 23-Feb-2009	4. REQUISITION/PURCHASE REQ. NO. N00178-09-MR-57270	5. PROJECT NO. (If applicable) N/A
6. ISSUED BY NSWC, DAHLGREN DIVISION 17632 Dahlgren Road Suite 157 Dahlgren VA 22448-5110	CODE N00178	7. ADMINISTERED BY (If other than Item 6) DCMA MUNITIONS AND SUPPORT SYSTEMS SPRINGFIELD BLDG. 1, ARDEC PICATINNY NJ 07806-5000	CODE S3101A

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Drs Systems, Inc. 5 Sylvan Way Parsippany NJ 07054-3813	9A. AMENDMENT OF SOLICITATION NO.	
	9B. DATED (SEE ITEM 11)	
	10A. MODIFICATION OF CONTRACT/ORDER NO. N00178-04-D-4036-0004	
CAGE CODE 1V3E4	FACILITY CODE 017395711	10B. DATED (SEE ITEM 13) 11-Mar-2005

**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.**

<input type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation 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) Unilateral mod pursuant to authority of FAR 52.232-22 Limitation of Funds in the basic contract

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)	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY [Signature]	24-Feb-2009
		(Signature of Contracting Officer)	

NSN 7540-01-152-8070

PREVIOUS EDITION UNUSABLE

30-105

**STANDARD FORM 30 (Rev. 10-83)**

Prescribed by GSA  
FAR (48 CFR) 53.243

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## GENERAL INFORMATION

PURPOSE: Modification 13 is issued to provide an increment of funds and correct an administrative error from Mod 12.

MODIFICATION 13:

1.) Incremental Funding is provided as follows:

SLIN	ACRN	Amount
0001 CP	AP	██████████
0001 CQ	AR	██████████

Accounting and Appropriation Data for this increment of funds is provided in Section G.

2.) In Modification 12, a blank SLIN 0003 CN was inadvertently created. There was no dollar value or funding associated with SLIN 0003 CN. This modification deletes SLIN 0003 CN.

A conformed copy of this Task Order is attached to this modification.

The total amount of funds obligated to the task is hereby increased by ██████████ from ██████████ to ██████████

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**SECTION B SUPPLIES OR SERVICES AND PRICES**

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

Item	Supplies/Services Qty	Unit	Est. Cost	Fixed Fee	CPFF
0001					██████████
0001AA	Total Ship Training Systems and Test and Evaluation Support (TBD)	1.0 Lot	\$0.00	\$0.00	\$0.00
0001AB	Funding for REQN 5011-0109 (RDT&E)	1.0 Lot	██████████	██████████	██████████
0001AC	Funding for REQN 5028-0027 (OPN)	1.0 Lot	██████████	██████████	██████████
0001BA	Total Ship Training Systems and Test and Evaluation Support - Option Period 1 (OTHER)	1.0 Lot	\$0.00	\$0.00	\$0.00
0001BB	Funding Document 6083-6066 (OTHER)	1.0 Lot	██████████	██████████	██████████
0001BC	Funding Document 7046-3550 (OTHER)	1.0 Lot	██████████	██████████	██████████
0001BD	Funding Document 7046-3546 (OTHER)	1.0 Lot	██████████	██████████	██████████
0001CA	Total Ship Training Systems and Test and Evaluation Support - Option Period 1 (TBD)	1.0 Lot	\$0.00	\$0.00	\$0.00
0001CB	Funding Document 7054-4257 (OTHER)	1.0 Lot	██████████	██████████	██████████
0001CC	Funding Document 7054-4266 (OTHER)	1.0 Lot	██████████	██████████	██████████
0001CD	Funding document 7179-0346 (OPN)	1.0 Lot	██████████	██████████	██████████
0001CE	Funding document 7179-0355 (OPN)	1.0 Lot	██████████	██████████	██████████
0001CF	Funding document 7198-2707 (OTHER)	1.0 Lot	██████████	██████████	██████████
0001CG	Funding document 7198-2728 (OTHER)	1.0 Lot	██████████	██████████	██████████

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0001CH	Funding document 8064-8257 (OTHER)	1.0 Lot	[REDACTED]	[REDACTED]	[REDACTED]
0001CJ	Funding document 8113-4880 (OTHER)	1.0 Lot	[REDACTED]	[REDACTED]	[REDACTED]
0001CK	Funding document 8112-7490 (OTHER)	1.0 Lot	[REDACTED]	[REDACTED]	[REDACTED]
0001CL	Funding document W63/8319505A (OTHER)	1.0 Lot	[REDACTED]	[REDACTED]	[REDACTED]
0001CM	Funding document W63/8319506A (OTHER)	1.0 Lot	[REDACTED]	[REDACTED]	[REDACTED]
0001CN	Funding Document W63/9026561A (OTHER)	1.0 Lot	[REDACTED]	[REDACTED]	[REDACTED]
0001CP	Funding Document W54/90484339 (OTHER)	1.0 Lot	[REDACTED]	[REDACTED]	[REDACTED]
0001CQ	Funding Document W54/90484335 (OTHER)	1.0 Lot	[REDACTED]	[REDACTED]	[REDACTED]

For ODC Items:

Item	Supplies/Services	Qty	Unit	Est. Cost
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0003				[REDACTED]
0003AA	Total Ship Training Systems and Test and Evaluation Support (TBD)	1.0	Lot	\$0.00
0003AB	FUNDING FOR REQ 5182-0166 (O&MN,N)	1.0	Lot	[REDACTED]
0003AC	FUNDING FOR REQ 5182-0177 (RDT&E)	1.0	Lot	[REDACTED]

The following are key personnel categories. The required number of resumes are identified below and submitted as follows:

Senior Engineer Level III (1 Resume)

Senior Engineer Level II (3 Resumes)

Senior Engineer Level I (1 Resume)

Resumes are required for each of the Key Personnel Labor Categories identified above.

Note A: Base Period Items - The base period of one year will commence 1 March 2005.

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Note B: Option Items - Option SLINS to which the option clause in Section I-2 applies and which is to be supplied only if and to the extent the said option is exercised.

Note C: The offeror shall provide resumes for Key Personnel required to perform Section C, Performance Work Statement. By submitting an offer, the contractor certifies that all required key personnel identified in its proposal meet the desired personnel qualifications listed below. The offeror must submit information that all personnel proposed by the offeror have a current Secret security clearance.

LABOR CATEGORIES:

PERSONNEL QUALIFICATIONS REQUIREMENTS:

The personnel resumes shall demonstrate each of the personnel qualifications listed below.

Senior Engineer Level III:

1. Minimum 15 years experience in capabilities, operations, and management of US Navy Combat and Weapon systems and programs. Which includes:

- Of the 15 year minimum above, a minimum of 10 years general experience in managing installation, maintenance, integration, and test efforts for US Navy Combat and Weapon systems, including financial management of projects, management of resources within budget, project plans, technical and budgetary status reporting. Experience should include management and technical direction of personnel working in all aspects of combat and weapon system installation, maintenance, and integration. Excellent organizational and communication skills. This will be evaluated based upon the written documentation provided in the resumes (ie. Briefings (command level) given or reports written, experience in leading large technical teams/groups, etc.).

- Of the 15 year minimum above, a minimum of 5 yearsrs specialized experience in the following areas:

- Experience in the analysis, design, interfacing, integration, test and evaluation of software systems across multiple hardware and software platforms; and a working knowledge of transfer protocols across US Navy FDDI and Ethernet networks.

- Experience in US Navy SSDS MK 2, AEGIS, and ACDS combat system configurations. Experience in US Navy Battle Force Tactical Training (BFTT) system configurations. Experience in US Navy and Joint Service Tactical Data Links (TADILs). Experience in US Navy C4I systems.

- Experience in systems engineering processes and methodologies.

2. Educational Requirement: Masters Degree or higher in a technical or business related field.

Senior Engineer Level II:

1. Minimum 10 years experience in installation, maintenance, integration, and test efforts for US Navy Combat and Weapon systems. Experience should include management and technical direction of personnel working in all aspects of combat and weapon system installation, maintenance, integration, and test. Which includes:

- Of the 10 year minimum stated above, a minimum of 5 years general experience in integration, test and evaluation of US Navy Combat, Weapon, and Training systems. Experience should include development of test documentation, including test requirements, procedures, and reports, used for such efforts.

- Of the 10 year minimum stated above, a minimum of 5 years specialized experience in the following areas:

- experience in integration, test and evaluation of software systems across multiple hardware and software platforms. Experience should include troubleshooting system and network problems on systems based on HP-Unix, Linux and Windows operating systems, integrated across FDDI and Ethernet networks.

- Desired experience in US Navy Battle Force Tactical Training (BFTT) system operations, test and evaluation. Experience should include operation and testing of BFTT systems integrated with AEGIS Combat Training System (ACTS), SQQ-89 On-Board Training (OBT) system, Cooperative Engagement Capability (CEC) Training Adjunct (CTA) system, and the Joint Semi-Automated Forces (JSAF) system.

- Desired Experience in US Navy SSDS MK 2, AEGIS, and ACDS combat system configurations and capabilities, particularly with respect to integration and operation with BFTT system elements. Experience in US Navy and Joint Service Tactical Data Links (TADILs). Experience in US Navy C4I systems.

2. Educational Requirement: Bachelors Degree in a technical field or equivalent information technology experience. For equivalency

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purposes, 5 years of hands-on experience (e.g., experience in network administration or troubleshooting, or in computer troubleshooting) is considered a trade-off to formal education/training.

Senior Engineer Level I:

1. Minimum 5 years experience in installation, maintenance, integration, and test efforts for US Navy Combat and Weapon systems. Experience should include management and technical direction of personnel working in all aspects of combat and weapon system installation, maintenance, integration, and test.

For this labor category, it is desired that offerors have experience in some of the following areas:

- Experience in integration, test and evaluation of US Navy Combat, Weapon, and Training systems. Experience should include development of test documentation, including test requirements, procedures, and reports, used for such efforts. Including specialized experience in the following areas:
- Specialized experience in integration, test and evaluation of software systems across multiple hardware and software platforms. Experience should include troubleshooting system and network problems on systems based on HP-Unix, Linux and Windows operating systems, integrated across FDDI and Ethernet networks.
- Experience in US Navy Battle Force Tactical Training (BFTT) system operations, test and evaluation. Experience should include operation and testing of BFTT systems integrated with AEGIS Combat Training System (ACTS), SQQ-89 On-Board Training (OBT) system, Cooperative Engagement Capability (CEC) Training Adjunct (CTA) system, and the Joint Semi-Automated Forces (JSAF) system.
- Experience in US Navy SSDS MK 2, AEGIS, and ACDS combat system configurations and capabilities, particularly with respect to integration and operation with BFTT system elements. Experience in US Navy and Joint Service Tactical Data Links (TADILs). Experience in US Navy C4I systems.

2. Educational Requirement: Associates Degree in a technical or business related field or equivalent information technology experience. For equivalency purposes, 3 years of hands-on experience (e.g., experience in network administration or troubleshooting, or in computer troubleshooting) is considered a trade-off to formal education/training.

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

CLIN 0001 add all SLINS referenced under CLIN 0001 of this task order are Cost Plus Fixed Fee.

CLIN 0002 and all SLINS referenced under CLIN 0002 of this task order are Firm Fixed Price.

The base period of the task order will be Cost Plus Fixed Fee the Option periods, if exercised, will be Firm Fixed Price.

EXPEDITING CONTRACT CLOSEOUT (NAVSEA) (DEC 1995)

(a) As part of the negotiated fixed price or total estimated amount of this contract, both the Government and the Contractor have agreed to waive any entitlement that otherwise might accrue to either party in any residual dollar amount of \$500 or less at the time of final contract closeout. The term "residual dollar amount" shall include all money that would otherwise be owed to either party at the end of the contract, except that, amounts connected in any way with taxation, allegations of fraud and/or antitrust violations shall be excluded. For purposes of determining residual dollar amounts, offsets of money owed by one party against money that would otherwise be paid by that party may be considered to the extent permitted by law.

(b) This agreement to waive entitlement to residual dollar amounts has been considered by both parties. It is agreed that the administrative costs for either party associated with collecting such small dollar amounts could exceed the amount to be recovered.

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## SECTION C DESCRIPTIONS AND SPECIFICATIONS

Total Ship Training Systems (TSTS)

Test & Evaluation Support

Performance Work Statement (PWS)

### 1.0 INTRODUCTION

1.1 Mission. Keeping America's Navy #1 in the world by providing the Navy operationally superior and affordable ships, systems and ordnance throughout their life cycle... for today, for tomorrow, for the Navy after next.

#### 1.2 Background and Objective

The AN/USQ-T46(V) Battle Force Tactical Training (BFTT) system is designed to provide coordinated, realistic, high stress combat team training for war fighting proficiency, and training for fleet personnel to achieve and maintain readiness within the surface and subsurface forces of the Atlantic and Pacific Fleets. The BFTT interactive war-fighting environment includes all naval elements. It connects ships located in various homeports via secure communications gateways and allows them to train in a realistic environment as if they were part of a battle force in the same geographic region. BFTT equipment is being installed on numerous classes of surface ships, along with related systems AN/USQ-T47(V) BFTT (Battle Force) Electronic Warfare Trainer (BEWT) and SM-908(P)/U thru SM-928(P)/U Trainer, Simulator - Stimulator System (TSSS) [formerly AN/USQ-T48(V) Generic Naval Simulator Stimulator (GNSS)]. Test and Evaluation (T&E) is required to verify BFTT system elements comply with all governing specifications and requirements and to validate their capabilities meet user needs.

To expand overall surface fleet training capabilities, a number of other systems are being developed and implemented by NAVSEA PEO IWS 1A5 under the Total Ship Training Systems (TSTS) program. As for the BFTT system, T&E efforts are required to verify TSTS system elements and architectures comply with all governing specifications and requirements and to validate their capabilities meet user needs.

### 2.0 TECHNICAL REQUIREMENTS

#### 2.1 Scope of Work.

2.2 Services will be requested and controlled by means of specific objectives and constraints described as Tasks. Additional details, sub-tasks, may be required for the purpose of defining a specific area within a Task. Tasks and sub-tasks within the Scope of Work may be added, deleted, and re-defined, throughout the designated Period-of-Performance (POP) as necessary to carry out the Government Client's mission.

##### Task 2.2.1

The contractor shall support PHD NSWC Detachment San Diego (ICSTD) in its role as the lead verification, validation, acceptance, and certification test agent for BFTT and TSTS systems and architectures developed under Program Executive Office Integrated Warfare Systems (PEO IWS) 1A5 programs. Specific BFTT system upgrades covered by this PWS Task include BFTT Build 3.2 and any follow-on patch updates to this build developed during the POP of this PWS. Planned changes for each Build 3.2 patch update will initially be defined in PEO IWS 1A5 Patch LCCB meeting minutes. Specific changes for each patch update provided for test will officially be defined in the Version Description Document (VDD) provided with the software delivery. Test events currently scheduled for conduct under this PWS include:

Configuration	Duration	Location
BFTT 3.2/AWS 6P3	1 week	Wallops Island, VA

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BFTT 3.2/AWS 7.1.1	1 week	Wallops Island, VA
BFTT 3.2/CVN ACDS Block 0	1 week	ICSTD, CA
BFTT 3.2/LHA ACDS Block 0	2 weeks	Norfolk, VA
BFTT 3.2/LHD ACDS Block 0	1 week	ICSTD, CA
BFTT 3.2/SSDS MK 2 (CVN 76)	1 week	Wallops Island, VA
BFTT 3.2/SSDS MK 2 (CVN 76)	2 weeks	ICSTD, CA
BFTT 3.2/SSDS MK 2 (CVN 69)	1 week	ICSTD, CA
BFTT 3.2/SSDS MK 2 (CVN 74)	1 week	ICSTD, CA
BFTT 3.2/SSDS MK 2 (CVN 67)	1 week	ICSTD, CA
BFTT 3.2/SSDS MK 1	1 week	Wallops Island, VA
BFTT 3.2/NAVSIM -10L	2 days	Ship San Diego, CA
BFTT 3.2/NAVSIM -50L	2 days	Ship San Diego, CA
BFTT 3.2/NAVSIM -40R	2 days	Ship San Diego, CA
BFTT 3.2/NAVSIM -80L	2 days	Ship Norfolk, VA
BFTT 3.2/NAVSIM -80R	2 days	Ship Norfolk, VA
BFTT 3.2/NAVSIM -90R	2 days	Ship Bremerton, WA
BFTT 3.2/NAVSIM -100R	2 days	Ship Mayport, FL

NOTE: For NAVSIM, L = Legacy hardware and R = Rehost hardware

Test Documentation Development. The contractor shall review current BFTT Build 3.2 test procedures developed under previous PEO IWS 1A5 T&E PWSs to determine their adequacy for verifying system operation and functionality for the above test events. Based upon this review, the contractor shall revise current procedures and or develop new procedures, particularly if new enhancements and/or corrections are implemented in follow-on patched versions of BFTT Build 3.2. Procedures should be developed In Accordance With (IAW) ICSTD Combat System Integration Test (CSIT) methodology, philosophy and standards. Specific test procedures to be reviewed shall include, but may not be limited to, the following test events:

- (a) Simulated Navigation Functional Operability Test (FOT) (for both in port and at-sea events)
- (b) Air Traffic Control (ATC) FOT and Functional Stress Test (FST)
- (c) Air Intercept Control (AIC) FOT
- (d) Tracking FOTs (AEGIS and TSSS)
- (e) Identification FOTs (AEGIS and TSSS)
- (f) Engagement FOT (AEGIS and SSDS MK 1)
- (g) Data Collection and Debrief FOTs (C&D, ACDS Block 0/1, and SSDS MK 1/2)
- (h) Anti-Air Warfare (AAW) Single Warfare Test (SWT) (AEGIS and CV/CVN)



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- (i) Anti-Submarine Warfare (ASW) SWT
- (j) Anti-Surface Warfare (ASU) SWT
- (k) Electronic Warfare (EW) SWT (BEWT Integrated and Stand-alone; and SSDS MK 1)
- (l) Strike Warfare (ATWCS) SWT
- (m) Tracking/Identification/AAW/ASU FST (AEGIS, TSSS, and SSDS MK 1)
- (n) Tracking/Identification FST (TSSS)
- (o) EW FST

The development schedule for and the specific test data to be included in test procedures shall be as agreed to between the TA and the contractor. Previous test documentation developed for BFTT Builds 3.1 and 3.2 shall be used as guides for the format and content of all test procedures.

Test documentation development efforts shall include incorporating all red-lines identified during test conduct efforts. As noted below, red-lining of test documentation shall occur during test conduct efforts; the incorporation of these red-lines shall occur during post-test efforts.

Software Trouble Report (STR) Generation. The contractor shall generate STRs for all design, documentation, or processing problems identified as a result of efforts performed under this PWS. All STRs shall be submitted to the PEO IWS 1A5 Test Director in a word processor format provided by the Government. Preliminary submission of STRs shall be within one (1) week of the identification of a problem. The Government will review all STR drafts within one (1) week and, if necessary, provide review comments to the contractor. The contractor shall incorporate changes to STRs required as a result of the government review comments information and resubmit final STRs within three (3) business days of review comments receipt.

Test Conduct. Test conduct shall include all efforts required to successfully certify BFTT Builds and patch upgrades, if applicable, are ready for fleet delivery. More specific requirements for these efforts are provided in the subparagraphs below. The Government will determine specific test events and schedules after thorough review of all BFTT T&E requirements, the resources available to meet those requirements and the availability of ship/shore sites to support test conduct. Specific test periods will be identified via written correspondence from the PEO IWS 1A5 Test Director (or his representative) when specific test objectives, dates, schedules and locations are solidified. It is estimated that all testing will be conducted in eight to twelve hour daily test shifts. Each test is to be conducted in accordance with prepared test documentation or standard ICSTD test practices. The applicable documentation for each test event will be noted in the PEO IWS 1A5 Test Director's (or his representative's) authorizing correspondence. For each test shift, the contractor shall redline test procedures, perform data extraction and reduction, and perform data analyses as described below. The contractor shall prepare STRs, maintain test logs, prepare daily and/or weekly test reports, and notify the PEO IWS 1A5 Test Director and the Test and Evaluation TA of the need for any ECP preparation. The Test and Evaluation TA, when notified of the need for an ECP, shall review such notification, and will commission development of appropriate ECPs via written correspondence. The PEO IWS 1A5 Test Director (or his representative) will designate a Government Test Director for each test conduct event covered by this task order.

(a) Test Plan Development. The contractor shall prepare and submit Test Plans to the Government for each test event to which they are designated the test lead. Test Plans shall be created in word processor format provided by the Government and shall include at a minimum:

- test site
- test objective(s);
- test configuration(s) to be used for the event;

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- test constraints/limitations (if applicable);
- specific tests to be conducted;
- proposed test schedule;
- test documentation development requirements;
- list of actions and responsibilities required (to ensure successful preparation and conduct of the test event).

The plans shall contain no classified information. A Test Plan shall be submitted at least

one (1) week prior to each test event. It is estimated that the contractor will be designated test for a minimum of 3 test events and a maximum of 6 test events.

(b) STR Correction Testing. The contractor shall test all STRs specified as corrected on BFTT builds as identified in the associated VDD(s) provided by the BFTT Software Development Agent (SDA). Testing shall determine whether resolution of the specific problem has been achieved and, perhaps more important, whether program regression has occurred through implementation of the STR correction. In cases where fixes are incomplete, the contractor shall recommend the close out of the existing STR and develop a new STR delineating the scope of remaining problem(s).

(c) ECP Implementation Testing. The contractor shall test all ECPs specified as implemented on BFTT builds as identified in the VDD(s) provided by the BFTT SDA. Testing shall determine whether both the specific technical requirements and the intent of the ECP have been achieved and whether program regression has occurred through implementation of the ECP. When required, the contractor shall develop STRs delineating the scope of problem(s) resulting from ECP implementation, including when the specific technical requirements of the ECP have been met but the perceived intent of the ECP has not been met.

(d) Training/Combat System Integration Testing. In addition to testing specific STR corrections and ECPs implemented in BFTT Builds as described in the above paragraphs, the contractor shall conduct training/combat system integration and operational verification testing of this system build when integrated with the training/combat system configuration under test. Using updated system test tapes provided by the SDA, the contractor shall verify system performance and adherence to all applicable system specifications. While time and available assets will preclude comprehensive testing of all BFTT Computer System Configuration Items (CSCIs), all CSCIs must undergo at least some evaluation to ensure fleet readiness. Typically this will be done using test procedures developed for BFTT Build 3.2, or revised by efforts under this PWS, although in some instances the contractor will be required to conduct “free-play” testing in order to evaluate system performance. Integration test events will be conducted at land-based test labs and may be conducted on shipboard systems. Both type test events will typically be of one (1) week duration.

(e) Procedure Red-Lining. The contractor shall red-line test procedures to incorporate lessons learned from test conduct. Red-lines shall be made during test shifts. The contractor shall deliver updated procedures with all red-lines incorporated for all procedures developed under this PWS within three (3) weeks after completion of a test event. The contractor shall deliver red-lined copies of procedures for those not developed under this PWS within one (1) week after completion of a test event.

(f) Data Extraction/Reduction. Operate the VME Bus Analyzer, LAN Test Tools, including the BFTT STOW LAN DX/DR tool and the SNIFFER, and other Test Tools, for data extraction and reduction. Contractor test personnel must be capable of setting up these systems for both data extraction and reduction, including making the necessary physical connections and software commands.

(g) System Troubleshooting. Attempt to isolate and correct system operational problems encountered during test shifts that are not specifically related to software design and development. These problems are typically related to missing files and/or directories or missing or loose cabling. Resolution of these problems will usually require contact and coordination with other BFTT test team members, ISEA engineers, and/or SDA engineers.

(h) Data Analysis. Record test results during test execution by the test procedures and standard ICSTD test practices. Use test observations and associated data extraction, when applicable, to analyze system performance

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compliance to all applicable specifications and design documents.

(i) Trouble Report Generation. Generate and submit Hardware Trouble Reports (HTRs) and STRs, to document system deficiencies identified during test conduct. The contractor shall be readily available for explanation of TRs developed during assigned test shifts.

(j) Daily Test Report Generation. The contractor shall provide daily test reports during test event conduct. Test reports shall include, as a minimum, the following:

- all test events attempted and personnel present during the shift(s)/event;
- program versions of all training and combat system elements used during the shift(s)/event;
- results of testing during the shift(s)/event, including problems or events requiring immediate attention and/or resolution;
- recommended plans for testing during next shift;
- copies of all equipment and program/documentation TRs generated during the shift(s)/event;
- summary of test step status and generated TRs for the testing cycle.

Test reports shall be created in word processor format provided by the Government. Reports shall contain no classified information and shall be furnished to the Test and Evaluation TA and other designated personnel. The contractor shall be readily available for explanation at the time the test report is submitted.

(k) Situation Test Report (SITREP) Generation. The contractor shall prepare a SITREP after completion of each test event. SITREPs shall be created in word processor format provided by the Government and shall include, at a minimum, test configuration(s) used for the event, significant test accomplishments, final STR status (open/closed/failed retest), overall assessments and recommendations for follow-on testing. The reports shall contain no classified information. A SITREP shall be submitted within one (1) week of completion of each test event.

#### Task 2.2.1 DELIVERABLES.

Build 3.2 Test Procedures; due IAW development schedule provided by PEO IWS 1A5 BFTT Certification Test Director; developed IAW instructions provided in PWS paragraph 2.2.1; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

Build 3.2 Test Plans; due at least one (1) week prior to each test event; developed IAW instructions provided in PWS paragraph 2.2.1; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

Trouble Reports; preliminary versions due within one (1) week of problem identification; final versions due within three (3) business days of receipt of Government review comments on preliminary versions; developed IAW instructions provided in PWS paragraph 2.2.1; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

Daily Test Reports; due within one (1) day of each test shift during a scheduled test event; developed IAW instructions provided in PWS paragraph 2.2.1; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

SITREPs; due within one (1) week of completion of a scheduled test event; developed IAW instructions provided in PWS paragraph 2.2.1; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

#### Task 2.2.2

The contractor shall support ICSTD in its role as the lead verification, validation, acceptance, and certification test agent for BFTT system upgrades developed under PEO IWS 1A5 programs. The BFTT system upgrade covered by

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this PWS Task is BFTT Build 3.2.1, which will incorporate ECP E-BFTT-02-0298, BFTT Link Simulation System. It is also expected that software corrections for problems identified during Build 3.2 test events could also be implemented in Build 3.2.1. Specific changes incorporated into Build 3.2.1 will be defined in the VDD that will be provided with the software delivery for test.

Test events currently scheduled for conduct under this PWS include:

Configuration	Duration	Location
BFTT 3.2.1/SSDS MK 2	1 week	Wallops Island, VA
BFTT 3.2.1/SSDS MK 2	Two 1-week events	ICSTD, CA

Test Documentation Development. The contractor shall develop test procedures for use in verifying system enhancements and corrections implemented in BFTT Build 3.2.1 and, if applicable, follow-on versions of this build. Procedures shall be developed IAW ICSTD CSIT methodology, philosophy, and standards. Specific test procedures to be developed shall include, but might not be limited to, the following test events:

- (a) Air Traffic Control (ATC) Training FOT
- (b) Air Intercept Control (AIC) Training FOT
- (c) SG&C FOT
- (d) ATC Training FST
- (e) AIC Training FST
- (f) Tracking FOT (TSSS)
- (g) Identification FOT (TSSS)
- (h) Data Collection and Debrief FOTs (SSDS MK 2)
- (i) Tracking FST (TSSS)
- (j) Identification FST (TSSS)

The development schedule for and the specific test data to be included in test procedures shall be as agreed to between the TA and the contractor. Previous test documentation developed for BFTT Build 3.2 shall be used as guides for the format and content of all test procedures.

Test documentation development efforts shall include incorporating all red-lines identified during test conduct efforts. As noted below, red-lining of test documentation shall occur during test conduct efforts; the incorporation of these red-lines shall occur during post-test efforts.

Software Trouble Report (STR) Generation. The contractor shall generate STRs for all design, documentation, or processing problems identified as a result of efforts performed under this PWS. All STRs shall be submitted to the ICSTD PEO IWS 1A5 Test Director in a word processor format provided by the Government. Preliminary submission of STRs shall be within one (1) week of the identification of a problem. The Government will review all STR drafts within one (1) week and, if necessary, provide review comments to the contractor. The contractor shall incorporate changes to STRs required as a result of the government review comments information and resubmit final STRs within three (3) business days of review comments receipt.

Test Conduct. Test conduct shall include all efforts required to successfully certify BFTT Build 3.2.1 is ready for fleet delivery. More specific requirements for these efforts are provided in the subparagraphs below. The Government will determine specific test events and schedules after thorough review of all TSTS T&E requirements, the resources

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available to meet those requirements and the availability of ship/shore sites to support test conduct. Specific test periods will be identified via written correspondence from the PEO IWS 1A5 Test Director (or his representative) when specific test objectives, dates, schedules and locations are solidified. It is estimated that all testing will be conducted in eight to twelve hour daily test shifts. Each test is to be conducted in accordance with prepared test documentation or standard ICSTD test practices. The applicable documentation for each test event will be noted in the PEO IWS 1A5 Test Director's (or his representative's) authorizing correspondence. For each test shift, the contractor shall redline test procedures, perform data extraction and reduction, and perform data analyses as described below. The contractor shall prepare STRs, maintain test logs, prepare daily and/or weekly test reports, and notify the PEO IWS 1A5 Test Director and the Test and Evaluation TA of the need for any ECP preparation. The Test and Evaluation TA, when notified of the need for an ECP, shall review such notification, and will commission development of appropriate ECPs via written correspondence. The PEO IWS 1A5 Test Director (or his representative) will designate a Government Test Director for each test conduct event covered by this task order.

(a) Test Plan Development. The contractor shall prepare and submit Test Plans to the Government for each test event to which they are designated the test lead. Test Plans shall be created in word processor format provided by the Government and shall include at a minimum:

- test site
- test objective(s);
- test configuration(s) to be used for the event;
- test constraints/limitations (if applicable);
- specific tests to be conducted;
- proposed test schedule;
- test documentation development requirements;
- list of actions and responsibilities required (to ensure successful preparation and conduct of the test event).

The plans shall contain no classified information. A Test Plan shall be submitted at least

one (1) week prior to each test event.

(b) STR Correction Testing. The contractor shall test all STRs specified as corrected on BFTT Build 3.2.1 as identified in the VDD(s) provided by the BFTT SDA. Testing shall determine whether resolution of the specific problem has been achieved and, perhaps more important, whether program regression has occurred through implementation of the STR correction. In cases where fixes are incomplete, the contractor shall recommend the close out of the existing STR and develop a new STR delineating the scope of remaining problem(s).

(c) ECP Implementation Testing. The contractor shall test all ECPs specified as implemented on BFTT Build 3.2.1 as identified in the VDD(s) provided by the BFTT SDA. Testing shall determine whether both the specific technical requirements and the intent of the ECP have been achieved and whether program regression has occurred through implementation of the ECP. When required, the contractor shall develop STRs delineating the scope of problem(s) resulting from ECP implementation, including when the specific technical requirements of the ECP have been met but the perceived intent of the ECP has not been met.

(d) Training/Combat System Integration Testing. In addition to testing specific STR corrections and ECPs implemented in BFTT Build 3.2.1 as described in the above paragraphs, the contractor shall conduct training/combat system integration and operational verification testing of this system build when integrated with the CV(N) Ship Self Defense System (SSDS) MK 2 configurations. Using updated system test tapes provided by the SDA, the contractor shall verify system performance and adherence to all applicable system specifications. While time and available assets will preclude comprehensive testing of all BFTT Computer System Configuration Items (CSCIs), all CSCIs must undergo at least some evaluation to ensure fleet readiness. Typically this will be done using test procedures developed for BFTT Build 3.2 and/or Build 3.2.1, although in some instances the contractor will be required to

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conduct “free-play” testing in order to evaluate system performance. Integration test events will be conducted at land-based test labs and may be conducted on shipboard systems. Both type test events will typically be of one (1) week duration.

(e) Procedure Red-Lining. The contractor shall red-line test procedures to incorporate lessons learned from test conduct. Red-lines shall be made during test shifts. The contractor shall deliver updated procedures with all red-lines incorporated for all procedures developed under this PWS within three (3) weeks after completion of a test event. The contractor shall deliver red-lined copies of procedures for those not developed under this PWS within one (1) week after completion of a test event.

(f) Data Extraction/Reduction. Operate the VME Bus Analyzer, LAN Test Tools, including the BFTT STOW LAN DX/DR tool and the SNIFFER, and other Test Tools, for data extraction and reduction. Contractor test personnel must be capable of setting up these systems for both data extraction and reduction, including making the necessary physical connections and software commands.

(g) System Troubleshooting. Attempt to isolate and correct system operational problems encountered during test shifts that are not specifically related to software design and development. These problems are typically related to missing files and/or directories or missing or loose cabling. Resolution of these problems will usually require contact and coordination with other BFTT test team members, ISEA engineers, and/or SDA engineers.

(h) Data Analysis. Record test results during test execution by the test procedures and standard ICSTD test practices. Use test observations and associated data extraction, when applicable, to analyze system performance compliance to all applicable specifications and design documents.

(i) Trouble Report Generation. Generate and submit HTRs and STRs, to document system deficiencies identified during test conduct. The contractor shall be readily available for explanation of TRs developed during assigned test shifts.

(j) Daily Test Report Generation. The contractor shall provide daily test reports during test event conduct. Test reports shall include, as a minimum, the following:

- all test events attempted and personnel present during the shift(s)/event;
- program versions of all training and combat system elements used during the shift(s)/event;
- results of testing during the shift(s)/event, including problems or events requiring immediate attention and/or resolution;
- recommended plans for testing during next shift;
- copies of all equipment and program/documentation TRs generated during the shift(s)/event;
- summary of test step status and generated TRs for the testing cycle.

Test reports shall be created in word processor format provided by the Government. Reports shall contain no classified information and shall be furnished to the Test and Evaluation TA and other designated personnel. The contractor shall be readily available for explanation at the time the test report is submitted.

(k) Situation Test Report (SITREP) Generation. The contractor shall prepare a SITREP after completion of each test event. SITREPs shall be created in word processor format provided by the Government and shall include, at a minimum, test configuration(s) used for the event, significant test accomplishments, final STR status (open/closed/failed retest), overall assessments and recommendations for follow-on testing. The reports shall contain no classified information. A SITREP shall be submitted within one (1) week of completion of each test event.

Task 2.2.2 DELIVERABLES.

Build 3.2.1 Test Procedures; due IAW development schedule to be provided by PEO IWS 1A5 BFTT Certification

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Test Director; developed IAW instructions provided in PWS paragraphs 2.2.2; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

Build 3.2.1 Test Plans; due at least one (1) week prior to each test event; developed IAW instructions provided in PWS paragraph 2.2.2; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

Trouble Reports; preliminary versions due within one (1) week of problem identification; final versions due within three (3) business days of receipt of Government review comments on preliminary versions; developed IAW instructions provided in PWS paragraphs 2.2.2; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

Daily Test Reports; due within one (1) day of each test shift during a scheduled test event; developed IAW instructions provided in PWS paragraph 2.2.2; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

SITREPs; due within one (1) week of completion of a scheduled test event; developed IAW instructions provided in PWS paragraph 2.2.2; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

#### Task 2.2.3

The contractor shall support PHD NSWC Detachment San Diego (ICSTD) in its role as the verification, validation, acceptance, and certification test agent for BFTT system upgrades developed under PEO IWS 1A5 programs. The specific BFTT upgrade covered by this PWS is BFTT Build 3.3. Current PEO IWS 1A5 plans are to incorporate 15 ECPs and approximately 100 STR corrections into Build 3.3. When determined, the final design for this build will be identified in the PEO IWS 1A5 BFTT System Baseline Plan. Specific changes incorporated into each Build 3.3 version provided for test will be defined in the Version Description Document (VDD) that will be provided with the software delivery.

Key dates for the development and test of Build 3.3 are as follows:

21-23 Jan '04 System Requirements Review

16-18 Mar '04 Preliminary Design Review

17-21 May '04 Critical Design Review

7 Jan '05 Code Cut-off

14 Mar - 12 Aug '05 Independent Verification and Validation (IV&V)

22 Aug '05 – 22 Jul '06 CSIT/Certification Testing

Build 3.3 test events currently scheduled for conduct under this PWS include:

Configuration	Duration	Location
BFTT 3.3/ACDS Block 0	1 week	ICSTD, CA
BFTT 3.3/AWS	Two 1-week events	Wallops Island, VA
BFTT 3.3/SSDS MK 2	1 week	Wallops Island, VA
BFTT 3.3/SSDS MK 1	1 week	Wallops Island, VA

Test Documentation Development. The contractor shall review BFTT Build 3.3 system requirements and design documentation, as they become available, to determine the adequacy of all available BFTT Builds 3.2 and 3.2.1 test documentation for verifying Build 3.3 system operation and functionality for all training/combat system configurations. Based upon this review, the contractor shall revise current procedures and/or develop new

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procedures. Procedures should be developed IAW ICSTD CSIT methodology, philosophy and standards.

The development schedule for and the specific test data to be included in test procedures shall be as agreed to between the TA and the contractor. BFTT Builds 3.2 and 3.2.1 test documentation shall be used as guides for the format and content of all test procedures. The development schedule will depend upon such factors as the definitive nature of Build 3.3 design throughout the POP of this PWS, the availability and comprehensiveness of documentation provided to specify planned design changes, and the occurrence of additional design changes after documentation on specific proposed enhancements has begun.

Test documentation development efforts shall include incorporating all red-lines identified during test conduct efforts. As noted below, red-lining of test documentation shall occur during test conduct efforts; the incorporation of these red-lines shall occur during post-test efforts.

Software Trouble Report (STR) Generation. The contractor shall generate STRs for all design, documentation, or processing problems identified as a result of efforts performed under this PWS. All STRs shall be submitted to the ICSTD PEO IWS 1A5 Test Director in a word processor format provided by the Government. Preliminary submission of STRs shall be within one (1) week of the identification of a problem. The Government will review all STR drafts within one (1) week and, if necessary, provide review comments to the contractor. The contractor shall incorporate changes to STRs required as a result of the government review comments information and resubmit final STRs within three (3) business days of review comments receipt.

Test Conduct. Test conduct shall include all efforts required to successfully conduct BFTT Build 3.3 IV&V and CSIT/Certification events during the PWS POP. More specific requirements for these efforts are provided in the subparagraphs below. The Government will determine specific test events and schedules after thorough review of all TSTS T&E requirements, the resources available to meet those requirements and the availability of ship/shore sites to support test conduct. Specific test events and periods will be identified via written correspondence from the PEO IWS 1A5 Test Director (or his representative) when specific test objectives, dates, schedules and locations are solidified. It is estimated that all testing will be conducted in eight to twelve hour daily test shifts. Each test is to be conducted in accordance with prepared test documentation or standard ICSTD test practices. The applicable documentation for each test event will be noted in the PEO IWS 1A5 Test Director's (or his representative's) authorizing correspondence. For each test shift, the contractor shall redline test procedures, perform data extraction and reduction, and perform data analyses as described below. The contractor shall prepare STRs, maintain test logs, prepare daily and/or weekly test reports, and notify the PEO IWS 1A5 Test Director and the Test and Evaluation TA of the need for any ECP preparation. The Test and Evaluation TA, when notified of the need for an ECP, shall review such notification, and will commission development of appropriate ECPs via written correspondence. The PEO IWS 1A5 Test Director (or his representative) will designate a Government Test Director for each test conduct event covered by this task been met.

(d) Training/Combat System Integration Testing. In addition to testing specific STR corrections and ECPs implemented in BFTT Build 3.3 as described in the above paragraphs, the contractor shall conduct training/combat system integration and operational verification testing of this system build when integrated with all ship and shore site configurations planned for this upgrade. Using updated system test tapes provided by the SDA, the contractor shall verify system performance and adherence to all applicable system specifications. While time and available assets will preclude comprehensive testing of all BFTT Computer System Configuration Items (CSCIs), all CSCIs must undergo at least some evaluation to ensure fleet readiness. Typically this will be done using test procedures developed for BFTT Build 3.3, although in some instances the contractor will be required to conduct "free-play" testing in order to evaluate system performance. Integration test events will be conducted at land-based test labs and may be conducted on shipboard systems. Both type test events will typically be of one (1) week duration.

(e) Procedure Red-Lining. The contractor shall red-line test procedures to incorporate lessons learned from test conduct. Red-lines shall be made during test shifts. The contractor shall deliver updated procedures with all red-lines incorporated for all procedures developed under this PWS within three (3) weeks after completion of a test event. The contractor shall deliver red-lined copies of procedures for those not developed under this PWS within one (1) week after completion of a test event.

(f) Data Extraction/Reduction. Operate the VME Bus Analyzer, LAN Test Tools, including the BFTT STOW LAN DX/DR tool and the SNIFFER, and other Test Tools, for data extraction and reduction. Contractor test personnel must be capable of setting up these systems for both data extraction and reduction, including making the necessary physical connections and software commands.



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(g) System Troubleshooting. Attempt to isolate and correct system operational problems encountered during test shifts that are not specifically related to software design and development. These problems are typically related to missing files and/or directories or missing or loose cabling. Resolution of these problems will usually require contact and coordination with other BFTT test team members, ISEA engineers, and/or SDA engineers.

(h) Data Analysis. Record test results during test execution by the test procedures and standard ICSTD test practices. Use test observations and associated data extraction, when applicable, to analyze system performance compliance to all applicable specifications and design documents.

(i) Trouble Report Generation. Generate and submit HTRs and STRs, to document system deficiencies identified during test conduct. The contractor shall be readily available for explanation of TRs developed during assigned test shifts.

(j) Daily Test Report Generation. The contractor shall provide daily test reports during test event conduct. Test reports shall include, as a minimum, the following:

- all test events attempted and personnel present during the shift(s)/event;
- program versions of all training and combat system elements used during the shift(s)/event;
- results of testing during the shift(s)/event, including problems or events requiring immediate attention and/or resolution;
- recommended plans for testing during next shift;
- copies of all equipment and program/documentation TRs generated during the - shift(s)/event;
- summary of test step status and generated TRs for the testing cycle.

Test reports shall be created in word processor format provided by the Government. Reports shall contain no classified information and shall be furnished to the Test and Evaluation TA and other designated personnel. The contractor shall be readily available for explanation at the time the test report is submitted.

(k) Situation Test Report (SITREP) Generation. The contractor shall prepare a SITREP after completion of each test event. SITREPs shall be created in word processor format provided by the Government and shall include, at a minimum, test configuration(s) used for the event, significant test accomplishments, final STR status (open/closed/failed retest), overall assessments and recommendations for follow-on testing. The reports shall contain no classified information. A SITREP shall be submitted within one (1) week of completion of each test event.

#### Task 2.2.3 DELIVERABLES.

Build 3.3 Test Procedures; due 29 July 2005; developed IAW instructions provided in PWS paragraph 2.2.3; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

Build 3.2 Test Plans; due at least one (1) week prior to each test event; developed IAW instructions provided in PWS paragraph 2.2.3; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

Trouble Reports; preliminary versions due within one (1) week of problem identification; final versions due within three (3) business days of receipt of Government review comments on preliminary versions; developed IAW instructions provided in PWS paragraphs 2.2.3; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

Daily Test Reports; due within one (1) day of each test shift during a scheduled test event; developed IAW instructions provided in PWS paragraph 2.2.3; submitted to the PEO IWS 1A5 Test Director and BFTT Certification Test Director.

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#### Task 2.2.4

The contractor shall support ICSTD in its role as the lead test and evaluation agent for TSTS systems developed under PEO IWS 1A5 programs. In support of this role, the Contractor shall provide investigation, analysis, and test conduct support to PEO IWS 1A5 in the study of Navy fleet training architecture, systems, and processes to assess their current reliability, availability, capabilities, and limitations. These efforts shall be directed at preparing for, conducting, analyzing results, and reporting on investigative and test efforts designed to identify and assess factors impacting fleet training event success. Results from these efforts will be incorporated into fleet training system capabilities and limitations documentation that will enable a better understanding and use of TSTS programs to achieve improved fleet readiness.

**Test Documentation Development.** The contractor shall develop test plans, schedules, requirements, and procedures, for use in investigating combat/training system integration and functionality. All test documentation shall be developed IAW direction provided by the PEO IWS 1A5 Test Director. Because of time and resource constraints, in most cases test documentation will consist of general test case, configuration and set-up descriptions.

The development schedule for and the specific test data to be included in test documentation shall be as agreed to between the TA and the contractor.

**Software Trouble Report (STR) Generation.** The contractor shall generate STRs for all design, documentation, or processing problems identified as a result of efforts performed under this PWS Task. All STRs shall be submitted to the ICSTD PEO IWS 1A5 Test Director in a word processor format provided by the Government. Preliminary submission of STRs shall be within one (1) week of the identification of a problem. The Government will review all STR drafts within one (1) week and, if necessary, provide review comments to the contractor. The contractor shall incorporate changes to STRs required as a result of the government review comments information and resubmit final STRs within three (3) business days of review comments receipt.

**Test Conduct.** Test conduct shall include all efforts required to assess the capability of PEO IWS 1A5 BFTT training systems and elements to successfully support execution of fleet training events. More specific requirements for these efforts are provided in the subparagraphs below. The Government will determine specific test events and schedules after thorough review of all related T&E requirements, the resources available to meet those requirements and the availability of ship/shore sites to support test conduct. Specific test periods will be identified via written correspondence from the PEO IWS 1A5 Test Director (or his representative) when specific test objectives, dates, schedules and locations are solidified. It is estimated that all testing will be conducted in eight to twelve hour daily test shifts. Each test is to be conducted in accordance with prepared test documentation or standard ICSTD test practices. The applicable documentation for each test event will be noted in the PEO IWS 1A5 Test Director's (or his representative's) authorizing correspondence. For each test shift, the contractor shall redline test procedures, perform data extraction and reduction, and perform data analyses as described below. The contractor shall prepare STRs, maintain test logs, prepare daily and/or weekly test reports, and notify the PEO IWS 1A5 Test Director of the need for any ECP preparation. The PEO IWS 1A5 Test Director, when notified of the need for an ECP, shall review such notification, and will commission development of appropriate ECPs via written correspondence. The PEO IWS 1A5 Test Director (or his representative) will designate a Government Test Director (TD) for each test conduct event covered by this task order.

(a) **Training/Combat System Integration Testing.** The contractor shall conduct training/combat system integration and operational performance testing of PEO IWS 1A5 BFTT systems and elements. The contractor shall verify system performance and adherence to all applicable system specifications in an effort to identify capabilities and limitations inherent in each integrated training/combat system configuration. Time and available assets will preclude comprehensive testing of all BFTT system CSCIs, however functionality specific to training objectives for each fleet exercise must undergo evaluation to ensure fleet readiness. Testing will be done using test case descriptions developed under this PWS or provided by the Government, or through “free-play” test conduct of processing are to support the fleet training events. The TD will provide guidance on these key processing areas prior to each test event. Test events will be conducted at ICSTD, Wallops Island, NAVSEA Dam Neck, and/or on shipboard systems. Test events will typically be of one (1) week duration.

(b) **Test Documentation Red-Lining.** The contractor shall red-line test documentation to incorporate lessons learned from test conduct. Red-lines shall be made during test shifts. The contractor shall deliver updated test documentation with all red-lines incorporated for all documentation developed under this PWS within three (3) weeks after completion of a test event. The contractor shall deliver red-lined copies of test documentation not developed under this PWS within one (1) week after completion of a test event.

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(c) Data Extraction/Reduction. Operate the VME Bus Analyzer, LAN Test Tools, including the BFTT STOW LAN DX/DR tool and the SNIFFER, and other Test Tools, for data extraction and reduction. Contractor test personnel must be capable of setting up these systems for both data extraction and reduction, including making the necessary physical connections and software commands.

(d) System Troubleshooting. Attempt to isolate and correct system operational problems encountered during test shifts that are not specifically related to software design and development. These problems are typically related to missing files and/or directories or missing or loose cabling. Resolution of these problems will usually require contact and coordination with other BFTT test team members, ISEA engineers, and/or SDA engineers.

(e) Data Analysis. Record test results during test execution by the test procedures and standard ICSTD test practices. Use test observations and associated data extraction, when applicable, to analyze system performance compliance to all applicable specifications and design documents.

(f) Trouble Report Generation. Generate and submit Hardware Trouble Reports (HTRs) and STRs, to document system deficiencies identified during test conduct. The contractor shall be readily available for explanation of TRs developed during assigned test shifts.

(g) Daily Test Report Generation. The contractor shall provide daily test reports during test event conduct. Test reports shall include, as a minimum, the following:

- all test events attempted and personnel present during the shift(s)/event;
- program versions of all training and combat system elements used during the shift(s)/event;
- results of testing during the shift(s)/event, including problems or events requiring immediate attention and/or resolution;
- recommended plans for testing during next shift;
- copies of all equipment and program/documentation TRs generated during the shift(s)/event;
- summary of test step status and generated TRs for the testing cycle.

Test reports shall be created in word processor format provided by the Government. Reports shall contain no classified information and shall be furnished to the Test and Evaluation TA and other designated personnel. The contractor shall be readily available for explanation at the time the test report is submitted.

#### Task 2.2.4 DELIVERABLES.

Test Documentation; due IAW schedule to be provided by agreement between contractor and the PEO IWS 1A5 Test Director; developed IAW instructions provided in PWS paragraph 2.2.4; submitted to the PEO IWS 1A5 Test Director.

Trouble Reports; preliminary versions due within one (1) week of problem identification; final versions due within three (3) business days of receipt of Government review comments on preliminary versions; developed IAW instructions provided in PWS paragraph 2.2.4; submitted to the PEO IWS 1A5 Test Director.

Daily Test Reports; due within one (1) day of each test shift during a scheduled test event; developed IAW instructions provided in PWS paragraph 2.2.4; submitted to the PEO IWS 1A5 Test Director.

#### Task 2.2.5

The contractor shall support PHD NSWC Detachment San Diego (ICSTD) in its role as the lead verification, validation, acceptance, and certification test agent for BFTT and TSTS systems and architectures developed under

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PEO IWS 1A5 programs. Specific T&E efforts covered by this PWS Task are those related to System Operational Verification Test (SOVT) of BFTT shipboard software installations and upgrades.

Test Documentation Development. The contractor shall review current BFTT Industrial Test Procedures (ITPs; AKA SOVT procedures) developed under previous PEO IWS 1A5 T&E PWSs to determine their adequacy for verifying system operation and functionality for all BFTT ship class configurations scheduled to receive BFTT Builds 3.2, 3.2.1 or 3.3 software installation. Based upon this review, the contractor shall revise current procedures and or develop new procedures to reflect enhancements and/or corrections depending upon which build is scheduled for delivery to each ship class configuration. Procedures should be developed IAW NAVSEA and NSWC PHD ITP methodology, philosophy and standards.

The development schedule for ITPs shall be as agreed to between the TA and the contractor. Previous ITP documentation developed for BFTT installations and upgrades shall be used as guides for the format and content of all test procedures.

Test documentation development efforts shall include incorporating all red-lines identified during ITP validation efforts. As noted below, red-lining of test documentation shall occur during validation efforts; incorporation of these red-lines shall occur during post-validation efforts.

Software Trouble Report (STR) Generation. The contractor shall generate STRs for all design, documentation, or processing problems identified as a result of efforts performed under this PWS. All STRs shall be submitted to the PEO IWS 1A5 Test Director in a word processor format provided by the Government. Preliminary submission of STRs shall be within one (1) week of the identification of a problem. The Government will review all STR drafts within one (1) week and, if necessary, provide review comments to the contractor. The contractor shall incorporate changes to STRs required as a result of the government review comments information and resubmit final STRs within three (3) business days of review comments receipt.

ITP Validation. ITP validation shall include all efforts required to successfully validate the accuracy of ITPs and their readiness to support BFTT SOVT efforts by other government and contractor activities. ITP steps and instructions shall be of sufficient detail to allow conduct by individuals knowledgeable in general Navy combat and/or training system operation but not necessarily in BFTT system-specific operation. ITP validation preferably shall occur at appropriate land-based test sites, but validation on shipboard systems may be required. The Government will determine specific BFTT software delivery schedules and will work with the contractor to develop an appropriate ITP development schedule and plan. ITP

(a) Procedure Red-Lining. The contractor shall red-line ITPs incorporate lessons learned from validation efforts during execution of these events. The contractor shall deliver updated ITPs with all red-lines incorporated for all procedures developed under this PWS within three (3) weeks after completion of a validation event.

(b) System Troubleshooting. Attempt to isolate and correct system operational problems encountered during validation events that are not specifically related to software design and development. These problems are typically related to missing files and/or directories or missing or loose cabling. Resolution of these problems will usually require contact and coordination with other BFTT test team members, ISEA engineers, and/or SDA engineers.

(c) Trouble Report Generation. Generate and submit Hardware Trouble Reports (HTRs) and STRs, to document system deficiencies identified during test conduct. The contractor shall be readily available for explanation of TRs developed during assigned test shifts.

(d) Daily ITP Validation Event Report Generation. The contractor shall provide daily test reports during validation event conduct. Test reports shall include, as a minimum, the following:

- all validation events attempted and personnel present during the shift(s)/event;
- program versions of all training and combat system elements used during the shift(s)/event;
- results of testing during the shift(s)/event, including problems or events requiring immediate attention and/or resolution;

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- recommended plans for the next shift;
- copies of all equipment and program/documentation TRs generated during the shift(s)/event;
- summary of validation status and generated TRs for the testing cycle.

Test reports shall be created in format provided by the Government. Reports shall contain no classified information and shall be furnished to the PEO IWS 1A5 Test Director and other designated personnel. The contractor shall be readily available for explanation at the time the test report is submitted.

(e) Final ITP Validation Event Report Generation. The contractor shall prepare a final report after completion of each validation event. These reports shall be created in word processor format provided by the Government and shall include, at a minimum, configuration(s) used for the event, significant accomplishments, final STR status (open), overall assessments and recommendations for follow-on validation events. The reports shall contain no classified information. Final ITP validation event reports shall be submitted within one (1) week of completion of each test event.

#### Task 2.2.5 DELIVERABLES.

Industrial Test Procedures; due IAW development schedule provided by PEO IWS 1A5 Test Director; developed IAW instructions provided in PWS paragraph 2.2.5; submitted to the PEO IWS 1A5 Test Director.

Trouble Reports; preliminary versions due within one (1) week of problem identification; final versions due within three (3) business days of receipt of Government review comments on preliminary versions; developed IAW instructions provided in PWS paragraph 2.2.5; submitted to the PEO IWS 1A5 Test Director.

Daily ITP Validation Event Reports; due within one (1) day of each validation shift during a scheduled ITP validation event; developed IAW instructions provided in PWS paragraph 2.2.5; submitted to the PEO IWS 1A5 Test Director.

Final ITP Validation Event Reports; due within one (1) week of completion of a scheduled ITP validation event; developed IAW instructions provided in PWS paragraph 2.2.5; submitted to the PEO IWS 1A5 Test Director.

### 3.0 ADP ENVIRONMENT

Standard government systems, Microsoft OS, Novell, and PC's, unless specified.

### 4.0 DELIVERABLES AND DELIVERY

All deliverables must meet professional standards and meet the requirements set forth in contractual documentation. The contractor will be responsible for delivering all end items specified. The following items are deliverables which fall within the scope of this task and which are illustrative of the type of work the Government expects to order.

4.1 Reports. In addition to the reports listed below, additional reports may be requested. Progress reports must be submitted to the Government Project Manager no later than the 5th workday of every month. Reports shall be discussed during the monthly task management review meeting. Progress reports must be submitted on the prime contractor letterhead and be accompanied by a copy of that month's invoice, with written approval of the invoice by the Government Representative Representative. Failure to provide reports correctly will cause resubmission by your company. The monthly Progress Report will include, but not limited too: Contract number, Order number and Project number; brief task description; and a narrative review of work accomplished during the reporting period and/or significant events.

Reports and Documents not requiring a DD250

Support Area Title Delivery Date/Description

Management Technical Proposal Before contract award

Management Cost Proposal Before contract award

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Management Monthly Progress Report 5th of the month following

4.2 Other Deliverables and Reports requiring a DD250 with Delivery Schedule and Instructions as follows:

Specific deliverables are detailed in the Tasks. Additional deliverables may be required by the Task Order Manager (TOM).

4.3 Documentation The contractor shall maintain an up to date file of documentation (such as specifications, sketches, drawings, manuals and reports) developed or received under this contract. Originals or copies retained in this file shall be delivered to the Government at the close of this contract or at the close of individual task orders.

The contractor shall maintain a record of all data sources used in developing findings and recommendations. Information or documentation in this record shall be made available to the TOM or upon request if not included in other contractor reports. Destruction of obsolete data in this file is authorized upon receipt of written instructions from the TOM.

4.4 Schedule. Specific delivery schedule will be as specified in the Tasks and Sub Tasks.

4.5 Delivery Instructions. Specific delivery instructions will be provided by the TOM.

4.6 Criteria for Acceptance. Deliverables will be formatted and delivered in a professional manner.

#### 5.0 GOVERNMENT FURNISHED AND CONTRACTOR ACQUIRED RESOURCES

5.1 General. The Government Representative will provide the following resources:

5.2 When performing testing access will be provided to onsite facilities, supplies and services, lab space, office supplies, computer equipment and time, telephone, and reproduction facilities.

5.3 Information. The following information will be provided by the Government Representative:

5.3.1 Manuals, texts, briefs and other materials associated with the hardware/software

noted in paragraph 3.0 of this PWS.

5.3.2 Initial familiarization/orientation will be provided by the Government Agency. Standard Operational Procedures will be available to the contractor at the place of performance.

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## **SECTION D PACKAGING AND MARKING**

Section D in accordance with the terms and conditions of the Seaport-e Multiple Award Contract.

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## SECTION E INSPECTION AND ACCEPTANCE

Inspection and Acceptance for CLIN 0001 shall be in accordance with Section E of the SeaPort-e Multiple Award contract and supplemented by the following performance assessment standard:

Task Order Performance Standard:

Monthly status reports submitted to the Task Order Manager under subject Task Order shall identify the work that had been performed during the month, deliverables that had been submitted, and the name of the Government representative that had received the deliverable. The Task Order Manager will be required on a monthly basis to rate the quality of deliverables in terms of timeliness and quality on a rating scale of one (1) to five (5). The rating scale is specified in the table and defined below:

Rating Number	Rating	Rating Description
5	Exceptional	Significantly Exceeds Expectation
4	Very Good	Exceeds Expectation
3	Satisfactory	Meets Expectation
2	Marginal	Barely Meets Expectation
1	Unsatisfactory	Fails to Meet Expectation

Task Order acceptance will be made by the Task Order Manager upon the Contractor having achieved an overall rating of all deliverables, of "Meets Expectation" or better.

Rating Definitions:

Exceptional - Significantly Exceeds Expectation: Deliverables are completed on or prior to their respective due date 100% of the time without further revisions being required.

Very Good - Exceeds Expectation: Deliverables are completed on or prior to their respective due date 100% of the time with only minor revisions being required on approximately 5% of items submitted. The required rework does not negatively impact upon the respective program.

Satisfactory - Meets Expectation: Deliverables are completed on or prior to their respective due date 100% of the time with minor revisions being required on approximately 10% of items submitted. The required rework does not negatively impact upon the respective program.

Marginal - Barely Meets Expectation: Deliverables are completed on or prior to their respective due date approximately 95% of the time with minor revisions being required on approximately 15% of items submitted. The delayed submission and required rework of deliverables results in a minor negative impact to the respective program.

Unsatisfactory - Fails to Meet Expectation: Deliverables are completed on or prior to their respective due date less than 90% of the time with significant revisions being required on greater than 15% of items submitted. The delayed submission and required rework of deliverables results in a significant negative impact to the respective program.



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## SECTION F DELIVERABLES OR PERFORMANCE

### CLIN - DELIVERIES OR PERFORMANCE

The periods of performance for the following firm items are from date of task order award through 12 months thereafter, estimated at:

0001AA	3/11/2005 - 3/10/2006
0001AB	3/11/2005 - 3/10/2006
0001AC	3/11/2005 - 3/10/2006
0001BA	3/11/2006 - 3/10/2007
0001BB	3/11/2006 - 3/10/2007
0001BC	3/9/2007 - 3/10/2007
0001BD	3/9/2007 - 3/10/2007
0001CA	3/11/2007 - 3/10/2008
0001CB	3/11/2007 - 3/10/2008
0001CC	3/11/2007 - 3/10/2008
0001CD	8/9/2007 - 3/10/2008
0001CE	8/9/2007 - 3/10/2008
0001CF	8/9/2007 - 3/10/2008
0001CG	8/9/2007 - 3/10/2008
0001CH	3/27/2008 - 3/10/2010
0001CJ	4/29/2008 - 3/10/2009
0001CK	4/29/2008 - 3/10/2009
0001CL	10/1/2008 - 3/10/2010
0001CM	10/1/2008 - 3/10/2010
0001CN	10/1/2008 - 3/10/2010
0001CP	10/1/2008 - 3/10/2010
0001CQ	10/1/2008 - 3/10/2010
0003AA	3/11/2005 - 3/10/2006
0003AB	3/11/2005 - 3/10/2006
0003AC	3/11/2005 - 3/10/2006

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## SECTION G CONTRACT ADMINISTRATION DATA

Task Order Manager (TOM)

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Defense Contract Audit Agency (DCAA)  
Northern New Jersey Branch  
Bldg 350 South, Picantinny Arsenal  
Picantinny, NJ 07806-5000  
973-785-6664  
Defense Contract Managment Activity (DCMA)  
DCMA Springfield  
Bldg 1, ARDEC  
Picantinny, NJ 07806-5000

Accounting Data

SLINID	PR Number	Amount
0001AB	5011-0109	[REDACTED]
LLA :		
AA 1751319 A7HY 253 SASWS 0 068342 2D 175060 K14270000010		
0001AC	5028-0027	[REDACTED]
LLA :		
AB 1751810 A2MB 253 SASWS 0 068342 2D 000000 MB0400000000		

MOD 2

0003AB	5182-0166	[REDACTED]
LLA :		
AC 97X4930 NH1K 000 77777 063394 2F 000000 00RNX5T4BFTT		
SON: N0002405WX00556		
0003AC	5182-0177	[REDACTED]
LLA :		
AD 97X4930 NH1K 000 77777 063394 2F 000000 00R615T4BFTT		
SON: N0002405WX10706		

MOD 3

0001BB	6083-6066	[REDACTED]
LLA :		
AE 97X4930 NH1K 000 77777 063394 2F 000000 E5Q6T4BFTTH		

MOD 4

0001BC	7046-3550	[REDACTED]
LLA :		
AF 97X4930 NH1K 000 77777 063394 2F 000000 Q5L7T404BFTT		
0001BD	7046-3546	[REDACTED]
LLA :		

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AF 97X4930 NH1K 000 77777 063394 2F 000000 Q5L7T404BFTT

MOD 5

0001CB 7054-4257 [REDACTED]  
LLA :  
AF 97X4930 NH1K 000 77777 063394 2F 000000 Q5L7T404BFTT

0001CC 7054-4266 [REDACTED]  
LLA :  
AF 97X4930 NH1K 000 77777 063394 2F 000000 Q5L7T404BFTT

MOD 6

0001CD 7179-0346 [REDACTED]  
LLA :  
AG 97X4930 NH1K 000 77777 063394 2F 000000 C1C7T404BFTT

0001CE 7179-0355 [REDACTED]  
LLA :  
AH 97X4930 NH1K 000 77777 063394 2F 000000 J6P7T404BFTT

0001CF 7198-2707 [REDACTED]  
LLA :  
AF 97X4930 NH1K 000 77777 063394 2F 000000 Q5L7T404BFTT

0001CG 7198-2728 [REDACTED]  
LLA :  
AJ 97X4930 NH1K 000 77777 063394 2F 000000 Q5K7T404BFTT

MOD 8

0001CH 8064-8257 [REDACTED]  
LLA :  
AK 97X4930 NH1K 000 77777 063394 2F 000000 ME78T404BFTT

MOD 9

0001CJ 8113-4880 [REDACTED]  
LLA :  
AL 97X4930 NH1K 000 77777 063394 2F 000000 MPP8T404BFTT  
Funding document 8113-4880  
FS: RDN 65  
FUNDS EXP: 9/30/2009  
JON: MPP8T404BFTT

0001CK 8112-4790 [REDACTED]  
LLA :  
AM 97X4930 NH1K 000 77777 063394 2F 000000 YHH8T404BFTT  
Funding document 8112-4790  
FS: RDN 65  
FUNDS EXP: 9/30/2009  
JON: YHH8T404BFTT

MOD 11

0001CL W63/8319505A [REDACTED]  
LLA :  
AN 1791319 A7HY 253 SASWS 0 068342 2D 465510 K14270000010  
Standard Number: N0002409WX10928/AA

0001CM W63/8319506A [REDACTED]  
LLA :  
AP 1781319 A5XZ 253 SASWS 0 068342 2D 465510 K21780000010  
Standard Number: N0002409WX10663/AA

MOD 12

0001CN W63/9026561A [REDACTED]  
LLA :  
AQ 1771811 1388 253 3VWCL 0 068342 2D 000000 20101400001C

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Standard Number: N0002409WX21152/AA

MOD 13

0001CP W54/90484339 [REDACTED]

LLA :

AP 1781319 A5XZ 253 SASWS 0 068342 2D 465510 K21780000010

Standard Number: N0002409WX10663/AA

0001CQ W54/90484335 [REDACTED]

LLA :

AR 1711711 6210 253 3VWGL 0 068342 2D 000000 23170400001E

Standard Number: N0002409WX20774/AA

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## SECTION H SPECIAL CONTRACT REQUIREMENTS

### Requirements for Non-Government Personnel Working On-Site at NSWC PHD

Monthly report of contractor personnel assigned to desks/work stations/seats in any or all NSWC PHD buildings, including temporary buildings, highlighting gains and losses and including physical location (building) and NSWC PHD San Diego Detachment branch-level organizational code supported.

#### 5252.237-9106 SUBSTITUTION OF PERSONNEL (SEP 1990)

(a) The Contractor agrees that a partial basis for award of this contract is the list of key personnel proposed. Accordingly, the Contractor agrees to assign to this contract those key persons whose resumes were submitted with the proposal necessary to fulfill the requirements of the contract. No substitution shall be made without prior notification to and concurrence of the Contracting Officer in accordance with this requirement.

(b) All proposed substitutes shall have qualifications equal to or higher than the qualifications of the person to be replaced. The Contracting Officer shall be notified in writing of any proposed substitution at least forty five (45) days, or ninety (90) days if a security clearance is to be obtained, in advance of the proposed substitution. Such notification shall include: (1) an explanation of the circumstances necessitating the substitution; (2) a complete resume of the proposed substitute; and (3) any other information requested by the Contracting Officer to enable him/her to judge whether or not the Contractor is maintaining the same high quality of personnel that provided the partial basis for award.

#### INFORMATION ON DIGITAL FORMAT

The Contractor shall populate Livelink, the standard document management system for NAVSEA, with invoices, status reports, and data deliverables. Immediately after contract award, Livelink accounts will be created for specified contractor accounts, a Livelink project will be created for the contract, and the contractor specified will receive Livelink training. The Contractor shall provide on-line access to and delivery of programmatic and technical data in digital form. In addition, the Contractor shall allow the Government on-line access to existing contractor Management Information Systems to facilitate management and oversight.

Section K Representations and Certifications – Offerors may either (1) submit a statement in its proposal stating that Section K Representations and Certifications submitted in response to N00178-04-R-4000 are hereby incorporated into this solicitation and adopted by reference; or (2) may submit a completed Section K Representations and Certifications, which are available for download at: [www.seaport.navy.mil/main/sell/procedure\\_K-CR.html](http://www.seaport.navy.mil/main/sell/procedure_K-CR.html) (Cost-Reimbursement) or [www.seaport.navy.mil/main/sell/procedures\\_K-FFP.html](http://www.seaport.navy.mil/main/sell/procedures_K-FFP.html) (Fixed Price). For representations and certifications that require a signature, electronic submission of the proposal through SeaPort-e will constitute an electronic signature.

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## **SECTION I CONTRACT CLAUSES**

Section I clauses in accordance with the Seaport-e Basic Multiple Award Contract

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## SECTION J LIST OF ATTACHMENTS

Attachment 1 - Contract Security Classification Specification, DD 254  
Attachment 2 - Naval Surface Warfare Center Port Hueneme Division Certificate of Non-Disclosure

### DISTRIBUTION

#### EDA:

DFAS Columbus - North Entitlement Operations (GQ0337)  
DCMA Munitions & Support Systems Springfield (S3101A)

#### Hard Copy: File

#### E-mail:

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Contractor: [tdo@drs-tsi.com](mailto:tdo@drs-tsi.com)