

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>	1. CONTRACT ID CODE	PAGE OF PAGES	
	U	1	2

2. AMENDMENT/MODIFICATION NO. 26	3. EFFECTIVE DATE 18-Oct-2013	4. REQUISITION/PURCHASE REQ. NO. 1300384719	5. PROJECT NO. (If applicable) N/A
6. ISSUED BY CODE	N65540	7. ADMINISTERED BY (If other than Item 6) CODE	S3915A

NSWC, CARDEROCK DIVISION, PHILADELPHIA  
NAVSSSES  
Philadelphia PA 19112-1403  
andrew.cumings@navy.mil 215-897-7036

DCMA SURFACE COMMUNICATION AND SUPPORT  
SYSTEMS PHILADELPHIA  
700 ROBBINS AVENUE, BLDG. 4-A, P.O. BOX 11427  
PHILADELPHIA PA 19111-0427

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) EHS Technologies Corporation 1221 North Church Street Suite 106 Moorestown NJ 08057-1101	9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED (SEE ITEM 11)
	10A. MODIFICATION OF CONTRACT/ORDER NO. N00178-05-D-4309-EHP2
	10B. DATED (SEE ITEM 13) 08-Jul-2010
CAGE CODE 1GUU1	FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  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)  
SEE SECTION G

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) IAW 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)	
		Camille A Mesquita, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY /s/Camille A Mesquita (Signature of Contracting Officer)	18-Oct-2013

NSN 7540-01-152-8070  
PREVIOUS EDITION UNUSABLE

30-105

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

CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 9 of 36	FINAL
----------------------------------	----------------------------	----------------------------------	-----------------	-------

## SECTION C DESCRIPTIONS AND SPECIFICATIONS

### Performance Work Statement

#### **Engineering, ILS, Information Technology, Training, Program and Program Management for Code 91 and 94 at the Naval Surface Warfare Center, Ship Systems Engineering Station, Philadelphia, PA**

### **1. Scope of Work**

Code 910 is the Program Manager for all integrated logistics support for the Naval Surface Warfare Center, Philadelphia. This Statement of Work (SOW) defines the non-personal services required to provide engineering, integrated logistics support (ILS), information technology, training and program management support services to Codes 910 and portions of Code 94 and related organizations at NSWCCD-SSES and other Navy activities with which NSWCCD-SSES interacts to execute its work.

Contractor performing information assurance functions will be required to ensure that personnel accessing information systems have the proper and current information assurance certification to perform information assurance functions, in accordance with DOD 8570.01-M.

### **2. Requirements/Performance Standards**

#### **2.1 Engineering**

The contractor shall provide engineering services to support Code 91 and 94. Engineering support will focus on the application of engineering, analytical, and technical disciplines and skills to establish and maintain long-term engineering, operation, and maintenance support for the products and systems for which Code 91 and 94 are the cognizant ISEAs. The contractor shall also provide technical support to assist in the resolution of emergent requirements and issues. The contractor should be able to provide a wide range of engineering services such as human factors engineering support, systems engineering, environmental engineering and management, test and evaluation support, maintenance engineering, and ship engineering. Support will focus on technical issues as outlined in the following sections:

##### **2.1.1 Systems Engineering**

- The contractor shall participate in system design and design reviews including conceptual, system, hardware/software, and critical design reviews.
- The contractor shall recommend and perform/support modifications of existing hardware and software for integration or improvements.

CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 10 of 36	FINAL
----------------------------------	----------------------------	----------------------------------	------------------	-------

- The contractor shall identify system requirements to meet operational needs, including performing independent analysis and technical and feasibility studies; developing cost and performance data; and developing system specifications.
- The contractor shall provide, where applicable, Radio Frequency Identification (RFID) technology solutions.
- The contractor shall identify training requirements through analyses and developing program plans, Shareable Content Object Model (SCORM) computer based training, and Navy Content Object Model (NCOM) compliant Integrated Learning Environment (ILE) products.
- The contractor shall provide on-site technical support as directed.

### **2.1.2 Environmental Engineering and Management**

- The contractor shall develop plans of action and milestones (POA&Ms) with corrective actions and process improvements to address the root causes of deficiencies
- The contractor shall analyze environmental, health, and safety requirements
- The contractor shall document corrective actions and process improvements
- The contractor shall implement Best Management Practices related to Environmental Management and Pollution Prevention Plans
- The contractor shall identify training requirements and develop environmental awareness training programs
- The contractor shall participate in the Government's verification and training of all systems and equipment operated by Code 91 and 94 to ensure they are designed, developed, tested, evaluated, operated and maintained in compliance with applicable, Federal, State, Navy and host nation environmental laws, regulations and agreements. Must also be in compliance with all DOD/DON Information Assurance (IA) policies and regulations.

### **2.1.3 Test and Evaluation Support**

- The contractor shall develop procedures for conducting test and evaluation and performing all functions necessary to successfully complete test planning and associated documentation, including identification of test procedures, objectives and thresholds to be achieved, identification of support resources required to conduct the test, identifying evaluation methods, test reporting, procedure, failure feedback mechanism and test scheduling.
- The contractor shall provide test support to locate test sites, acquiring or assisting in acquiring access to test site(s), setting up instrumentation, sensors, test ranges, etc., and providing logistical resources.

CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 11 of 36	FINAL
----------------------------------	----------------------------	----------------------------------	------------------	-------

Logistical resource support may include personnel to perform pre-test training, maintenance of instrumentation during data collection, test performance, maintenance of instrumentation, hardware, and software, transportation, trial support, and related functions.

- The contractor shall conduct testing, analyzing the results of collected data, including failure or other feedback reports, applying appropriate evaluation techniques, identifying trends, making conclusions and recommendations.
- The contractor shall support designated HM&E tests, trials, and evaluations as tasked, which may include sustaining prototype development efforts, analysis of fielded systems and assessment of emerging technologies.

#### **2.1.4 Maintenance Engineering**

- The contractor shall develop, review and/or update maintenance procedures.
- The contractor shall perform Reliability, Availability and Maintainability (RAM) analyses and/or Trend analyses for HM&E systems or equipment.
- The contractor shall review and update:
  - Analyses guides
  - Maintenance Assessment Procedures
  - New documentation for in-service updates and new equipment.
- The contractor shall review and update existing management and planning documents
- The contractor shall research commercially available predictive/condition based diagnostics and applications to be integrated with existing systems that will achieve improved efficiencies in preventive and/or corrective maintenance and produce a positive return on investment (ROI) on lifecycle resource investment

#### **2.1.5 Human Factors Engineering Support**

- The contractor shall provide human factors engineering support by conducting systems analysis to determine the number, type, and mix, of knowledge, skills, abilities, tools and resources necessary to operate and maintain such systems as Caterpillar 3512B Diesel Engines for FFG 7 class ships, Isotta Franchini Non-Magnetic Diesel Engines for MCM class ships, Arc Fault Detection System for CVN class ships, Multi-Purpose Crane for MHC class ships and other systems designated by the customers at war fighting capability within the fleet.

#### **2.1.6 Ships Engineering Support**

- The contractor shall define acquisition logistics requirements to contract for construction of a Naval Warships.

CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 12 of 36	FINAL
----------------------------------	----------------------------	----------------------------------	------------------	-------

- The contractor shall participate in formal ship design reviews.
- The contractor shall provide modernization process support for Naval Submarines, Aircraft Carriers and Surface Ships.
- The contractor shall provide maintenance engineering support for Naval Submarines Aircraft Carriers and Surface Ships.
- The contractor shall provide management support for Regional Maintenance Centers servicing Naval Submarines, Aircraft Carriers and Surface Ships.
- The contractor shall provide deployed maintenance management support for Naval Submarines, Aircraft Carriers and Surface Ships.
- The contractor shall evaluate the performance of engineering management operations executed in The Naval Sea Systems Command and its Warfare Centers.
- The contractor shall evaluate the performance of industrial operations executed in public and private shipyards and facilities.
- The contractor shall evaluate existing and develop new metrics to measure Reliability, Maintainability and Availability of Navy Systems.
- The contractor shall perform gap analyses of systems required to support the Navy's maritime strategy.
- The contractor shall provide test and evaluation support of readiness reporting systems.
- The contractor shall provide assistance to the Government on waterfront in-service engineering support (ISEA) to ships and shore commands.
- The contractor shall conduct engineering material assessments of ship's systems.
- The contractor shall develop and deliver training to Ship's Force on new ISEA sponsored technologies.
- The contractor shall conduct special engineering studies.

## **2.2 Integrated Logistic Support (ILS)**

The contractor shall provide services to meet the client's daily needs for integrated logistic support (ILS) functions, financial tracking, task planning, process improvement and various activities, including support for sea basing, distance support and EOSS programs, which enhance the mission effectiveness of Code 91 and 94. Specifically, the contractor shall provide support by evaluating and

CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 13 of 36	FINAL
----------------------------------	----------------------------	----------------------------------	------------------	-------

responding to ILS help requests received by Code 91 and 94, examining existing ILS processes to streamline and optimize ILS efficiency, and updating technical manuals and providing other ILS support services as directed by Code 91 and 94.

The contractor shall provide Integrated Logistics Support services to include the following:

- The contractor shall deliver ILS-related management information systems based on Microsoft Server technologies employing JAVA and .NET.
- The contractor shall provide supply chain management and technology interfacing.
- The contractor shall analyze, develop, review, maintain, and track system and equipment logistics support planning, planned maintenance, training and documentation.
- The contractor shall provide technical and analytical support for all ILS disciplines and elements including:
  - Development, update, conversion, delivery, and/or review of Technical Manuals (TMs).
  - Development of conventional hardcopy technical manuals.
  - Development of Interactive Electronic Technical Manuals (IETMs).
  - Review of COTS technical manuals for accuracy and completeness.
- The contractor shall develop, review, update, and maintain complete supply support documentation in the form of Provisioning Technical Documentation (PTD) and supporting Data For Provisioning (DFP) packages and their resulting Allowance Parts Lists (APLs), Design Change Notices (DCN), and Field Change Bulletins (FCB).
- The contractor shall perform physical validation of ships and/or equipment to determine actual equipment configuration.
- The contractor shall provide marine repair, industrial operations and modernization management services.
- The contractor shall participate in logistics associated conferences and meetings to present concerns, making recommendations and gathering additional data as required.
- The contractor shall perform research, maintenance and update of the various HM&E system Program Support Data (PSD) in the PSD Automated Reporting and Tracking System (PARTS) for the assigned hardware.

## **2.3 Training**

The contractor shall provide education and training, and modeling and simulation support for computer based Training (CBT) and integrated learning environment (ILE) based training for many functional areas where Code 91 and 94 are heavily involved, including but not limited to Reverse

CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 14 of 36	FINAL
----------------------------------	----------------------------	----------------------------------	------------------	-------

Osmosis, Oil Spill Prevention, Operational Risk Management and other programs. The contractor should provided training support in areas of curriculum development, CBT development, front end analysis, EFR reports, Identification and Evaluation of Training Options, Develop Reusability Standards and conversion of curriculum to compliance with the Navy's Integrated Learning Environment. The contractor should provide training support services to include the following:

- The contractor shall identify training requirements and develop program plans.
- The contractor shall develop curriculum, instructor guides, student guides and supporting materials in the appropriate media.
- The contractor shall apply current science of learning and instructional design theories to develop processes, techniques and equipment as necessary to support training or training development for HM&E equipment.
- The contractor shall conduct Front End Analysis (FEA) for new and upgraded training requirements to the Fleet. The FEA will include, depending on client requirements, job task analysis, potential training options, acquisition and recurring costs for each training option, student throughput, potential risks for each option, and return on investment for each option.
- The contractor shall design, construct, maintain and modify data centric, web applications on system platforms to meet Navy training requirements. All training developed shall be in accordance with Navy ILE guidelines and be SCORM 2004 v1.3 compliant, as required by the Government and as defined at <http://navyile.fedsun.navy.mil>.
- The contractor shall provide operator and maintenance training support for installed HM&E systems and technology upgrades, including planning, analyzing, coordinating, developing, reviewing and maintaining various HM&E systems and associated interface systems.
- The contractor shall research and develop Navy Training System Plans (NTSP)
- The contractor shall perform an analysis of existing and new courses.
- The contractor shall develop Computer Based Training (CBT) / Interactive Courseware (ICW)
- The contractor shall provide analog to digital conversion services of existing media.
- The contractor shall provide replication/duplication services of existing and newly developed electronic media.

The contractor shall deliver training materials in accordance with deliverables as specified in paragraph 3.

## **2.4 Program Management**

CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 15 of 36	FINAL
----------------------------------	----------------------------	----------------------------------	------------------	-------

The contractor shall provide performance management products and services to help Code 91 and 94 consistently meet their goals in an effective and efficient manner. The contractor shall execute performance management activities to focus on performance of both organizations and the processes used to build a product or service for their customers. Specifically the contractor shall develop and present key information including white papers, presentations, briefings and other materials which provide the status on equipment system-specific items for which Code 91 and 94 are the cognizant ISEAs. The contractor shall review proposed changes that may create operational roadblocks or risk areas. Such key information should include practical, achievable solution packages to address any identified roadblocks. The contractor shall provide program management support to assist in the resolution of emergent requirements and issues.

In conjunction with Government personnel, the contractor shall liaison with various NSWCCD-SSSES Code 90 organizations, NAVSEA offices, and other Navy and government organizations and private industry sources to research and acquire data necessary to assist Code 91 and 94 with solutions to technical and programmatic problems. The contractor shall provide recommendations to employ new initiatives and best practices to improve areas within Code 91 and 94.

The contractor shall provide business and financial management services to support the planning, organizing, staffing, controlling, and leading of team efforts in managing programs. The contractor shall develop tools to readily track and predict the execution of the budget, prepare status briefings on the execution of work, analyze trends associated with requests received from the Fleet and provide other program management support services as directed by government personnel. The contractor shall provide support in identifying and coordinating all items of work, and assure that all efforts are directed toward providing the most effective and cost-efficient support services.

The contractor shall provide program management for a variety of programs and technology insertion projects. This support shall include the analysis, development, review, maintenance, and tracking of system and equipment support planning, maintenance, training and documentation. The contractor shall participate in associated conferences and meetings to present concerns, make recommendations and gather additional data as required.

The contractor should provide program management support services to include the following:

- The contractor shall perform cost benefit analysis, risk assessments, market surveys, and budget requirements for Naval engineering and technology programs.
- The contractor shall prepare technical reports to include system and/or equipment readiness and identify degradation trends.
- The contractor shall prepare management reports to include a monthly progress and status report.
- The contractor shall provide financial management support including analysis of program planning and other financial planning documentation with respect to budget submissions, spend plans, work plans, and obligation targets and thresholds.



CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 16 of 36	FINAL
----------------------------------	----------------------------	----------------------------------	------------------	-------

- The contractor shall provide process mapping and business reengineering services.
- The contractor shall develop spreadsheets and briefing forms appropriate for the analysis and presentation of information and providing reports of findings and recommendations.
- The contractor shall deploy short term task teams to accomplish short-term program management and information technology tasks.
- The contractor shall support organizational development, performance improvement, strategic planning, risk assessment and management, and change management for NSWCCD Philadelphia and related Naval organizations.
- The contractor shall conduct technology and management system audits including operating system audits, database audits, network audits, applications audits, backup systems and recovery, disaster recovery and business continuity of operations, software development life cycle and change management.
- The contractor shall provide other program management support services as directed by government personnel.
- The contractor shall attend program-related meetings and conferences, and program reviews on behalf of initiatives and provide reports.
- The contractor shall, when required, develop a recommended agenda and establish a system to track action items, identifying problems/issues, and produce meeting information.

### **3. DELIVERABLES**

3.1 Progress and Financial Reports: A monthly progress and financial report will be submitted to Task Order Manager (TOM) with a copy to the Contracting Officer.

3.2 Technical Reports: Technical reports and conclusions reflecting the work accomplished under each task set forth will be prepared and delivered to the Government when and in the form required by the Task Order Manager and conveyed by the Technical Instruction (TI).

3.3 Other Reports: There may be a need for other specific reports, test plans, evaluation reports or documentation created as an integral part of a task order under this task order.

3.4 Task order Status Report: The contractor will provide a status report which will cite the status and utilization since the last report, the status regarding hours and dollars remaining on the task, percent of completion of the task and any problems anticipated.

3.5 Travel Reports: For any remote travel required, the contractor will report the destination, number of travelers, duration of stay, task milestones completed, site points of contact, ship, and hull number visited.

CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 17 of 36	FINAL
----------------------------------	----------------------------	----------------------------------	------------------	-------

## 4. Security Requirements

All contractor personnel are required to comply with computer security requirements applicable to the Government's computer systems being used or accessed by them during the performance of this contract. When a decision is made known to a contractor employee that the employee will no longer need access to a Government computer system (due to dismissal, reassignment or resignation), it is the responsibility of the contractor to immediately notify the Task Order Manager (TOM) that the individual will not be permitted access to the computer system, and its data files. A Confidential Clearance will be required in order to access specific compartments on surface ships to gain access to network hardware. The contractor shall ensure compliance as per the DD Form 254 requirement.

## 5. Travel Requirements

Travel to various government facilities, commercial shipyards, contractor sites, land based test sites and US Navy ships to gather information, establish requirements, and attend the meetings and reviews necessary to accomplish the assigned ISEA/LCM tasks will be required. Actual travel requirements will be specified in Technical Instructions.

## 6. Place(s) of Performance

To execute the tasks listed in the statement of work, the contractor should have the ability to perform work at the following locations.

- NSWCCD-SSES, Philadelphia, PA
- Contractor's facility
- Other Navy homeport locations as designated by the client representative.

Other DoD and Federal Agency locations as designated by the client representative.

## 7. Technical Point of Contact (TPOC)

7.1 The TPOC for this Task Order will be Maurice Hartey, Code 9102, 215.897.8108.

7.2 The Task Order Manager (TOM) will be Thomas Smith, Code 4409, 215.897.1454.

## 8. Personnel Qualifications

The following labor categories are designated Key Personnel for this task order. Multi-trades tasking has been identified as a methodology of reducing manpower requirements. Resumes will be submitted for each category in the quantities indicated in parenthesis by the key category description.

Key Personnel - The target qualifications for the respective KEY LABOR CATEGORIES are as

CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 21 of 36	FINAL
----------------------------------	----------------------------	----------------------------------	------------------	-------

## SECTION D PACKAGING AND MARKING

All Deliverables shall be packaged and marked IAW Best Commercial Practice. Reports shall be delivered to the TOM and TPOC electronically and or mailed to:

Task Order Manager (TOM)  
NSWCCD  
Thomas A. Smith, Code 9440  
5001 South Broad Street  
Philadelphia, PA 19112  
[thomas.a.smith1@navy.mil](mailto:thomas.a.smith1@navy.mil)  
(215) 897- 1454

Technical Point of Contact (TPOC)  
NSWCCD  
Mr. Maurice J. Hartey  
5001 South Broad Street  
Philadelphia, PA 19112  
maurice.hartey@navy.mil  
(215) 897 - 8108

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

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

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

CONTRACT NO. N00178-05-D-4309	DELIVERY ORDER NO. EHP2	AMENDMENT/MODIFICATION NO. 26	PAGE 22 of 36	FINAL
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## **SECTION E INSPECTION AND ACCEPTANCE**

E-303 INSPECTION AND ACCEPTANCE-DESTINATION (JAN 2002)

Inspection and acceptance of the services to be furnished hereunder shall be made at destination by the Contracting Officer Representative or his duly authorized representative.