

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1 CONTRACT ID CODE <b>J</b>	PAGE OF PAGES <b>1   47</b>	
2 AMENDMENT/MODIFICATION NO <b>P00003</b>	3 EFFECTIVE DATE <b>24-Feb-2017</b>	4 REQUISITION/PURCHASE REQ NO SEE SCHEDULE	5 PROJECT NO (If applicable)		
6 ISSUED BY CODE <b>N39040</b> PORTSMOUTH NAVAL SHIPYARD CONTRACTING DIVISION, CODE 410 BLDG 153, 6TH FLOOR KITTEERY ME 03904		7 ADMINISTERED BY (If other than item 6) CODE  <b>See Item 6</b>			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) CACI TECHNOLOG ES, NC. 14370 NEWBROOK DRIVE CHANT LLY VA 20151-4206			9A. AMENDMENT OF SOLICITATION NO.		
			9B. DATED (SEE ITEM 11)		
			<input checked="" type="checkbox"/>	10A. MOD. OF CONTRACT/ORDER NO. <b>N39040-17-C-0002</b>	
			<input checked="" type="checkbox"/>	10B. DATED (SEE ITEM 13) <b>01-Oct-2016</b>	
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
<b>12. ACCOUNTING AND APPROPRIATION DATA (If required)</b> <b>See Schedule</b>					
<b>13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
<input checked="" type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <b>FAR 52.212-4(c) Changes</b>					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>  1  </u> copies to the issuing office.					
<b>14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)</b> Modification Control Number: <b>pbartoni17341</b> The purpose of this modification is as follows: 1. Correct Period Of Performance on CLIN 0008 from "1 Nov - 31 Dec" to "1 Oct - 31 Mar". 2. Correct the payment office from HQ0337 to HQ0338 to resolve CDR # CN4787. 3. Update PWS Para 12.2 hours for software engineer from _____ 4. Update WAWF clause tables to reflect change in payment office from HQ0337 to HQ0338. 5. Update limitation of Government's obligation to include CLIN 0008 in the first sentence.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			TEL: _____ 5253      EMAIL: _____ @ _____ mil		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED	
_____ (Signature of person authorized to sign)			BY _____ (Signature of Contracting Officer)	<b>07-Mar-2017</b>	

## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

**SUMMARY OF CHANGES**

## SECTION SF 1449 - CONTINUATION SHEET

## SOLICITATION/CONTRACT FORM

The 'Payment will be made by' organization has changed from

DFAS COLUMBUS

NORTH ENTITLEMENT OPERATIONS

PO BOX 182266

COLUMBUS OH 43218-2266

to

DFAS COLUMBUS CENTER

DFAS-CO/SOUTH ENTITLEMENT OPERATIONS

P.O. BOX 182264

COLUMBUS OH 43218-2264

## SUPPLIES OR SERVICES AND PRICES

## CLIN 0001

The CLIN extended description has changed from:

Extension of N00178-04-D-4026-FK02 Code 205/206 DSSP Engineering and Technical Services outlined in the Performance Work Statement in Section C. (O&MN,N) This CLIN corresponds to CLIN 0008 and should be billed as follows: Oct 2016: CLIN 0001, \$84,578.61 Nov 2016: CLIN 0001, \$84,578.61 Dec 2016: CLIN 0008, \$78,000.00 Jan 2016: CLIN 0008, \$78,000.00 Feb 2016: CLIN 0008, \$78,000.00 Mar 2016: CLIN 0008, \$78,000.00

To:

Extension of N00178-04-D-4026-FK02 Code 205/206 DSSP Engineering and Technical Services outlined in the Performance Work Statement in Section C. (O&MN,N) This CLIN corresponds to CLIN 0008 and should be billed as follows: Oct 2016: CLIN 0001, \$84,578.61 Nov 2016: CLIN 0001, \$84,578.61 Dec 2016: CLIN 0008, \$78,000.00 Jan 2017: CLIN 0008, \$78,000.00 Feb 2017: CLIN 0008, \$78,000.00 Mar 2017: CLIN 0008, \$78,000.00.

## CLIN 0008

The CLIN extended description has changed from:

Extension of N00178-04-D-4026-FK02 Code 205/206 DSSP Engineering and Technical Services outlined in the Performance Work Statement in Section C. (O&MN,N) This CLIN corresponds to CLIN 0008 and should be billed as follows: Oct 2016: CLIN 0001, \$84,578.61 Nov 2016: CLIN 0001, \$84,578.61 Dec 2016: CLIN 0008, \$78,000.00 Jan 2016: CLIN 0008, \$78,000.00 Feb 2016: CLIN 0008, \$78,000.00 Mar 2016: CLIN 0008, \$78,000.00

To:

Extension of N00178-04-D-4026-FK02 Code 205/206 DSSP Engineering and Technical Services outlined in the Performance Work Statement in Section C. (O&MN,N) This CLIN corresponds to CLIN 0008 and should be billed as follows: Oct 2016: CLIN 0001, \$84,578.61 Nov 2016: CLIN 0001, \$84,578.61 Dec 2016: CLIN 0008, \$78,000.00 Jan 2017: CLIN 0008, \$78,000.00 Feb 2017: CLIN 0008, \$78,000.00 Mar 2017: CLIN 0008, \$78,000.00.

## DELIVERIES AND PERFORMANCE

The following Delivery Schedule item for CLIN 0008 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC
POP 01-NOV-2016 TO 31-DEC-2016	N/A	PORTSMOUTH NAVAL SHIPYARD RECEIVING OFFICER [REDACTED] RECEIVING OFFICER BUILDING 170 KITTERY ME 03904 [REDACTED] FOB: Destination	N39040

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC
POP 01-OCT-2016 TO 31-MAR-2017	N/A	PORTSMOUTH NAVAL SHIPYARD RECEIVING OFFICER [REDACTED] RECEIVING OFFICER BUILDING 170 KITTERY ME 03904 [REDACTED] FOB: Destination	N39040

The following have been modified:

SECTION C

Performance Work Statement: SHAPEC/DSS Bridge Contract

### 1.0 Scope

The Contractor, in support of Portsmouth Naval Shipyard's (PNS) Ships Availability Planning and Engineering Center (SHAPEC) shall issue standardized written work instructions for all Depot (D)-level maintenance on 688 and 774 class Submarines. This task requires the development of required Work Breakdown Structure (WBS), developing technical ties within this WBS, identifying what material is required for the work authorized and provide the necessary certification documentation within the work Instructions. This position is located in the Engineering and Planning Department. Support required will be in the areas of engineering, technical, planning, and administration. Engineering, technical and planning support will be in the areas of Job Summary, ship, selected and other technical work document preparation, storage and retrieval. Logistics, configuration control and programming support will be in associated with material management, Configuration Overhaul Planning, Electronic Technical Work Document (E-TWD) improvement initiatives, validations and document / database management. Administrative support will be in the areas of data processing and clerical efforts. The contractor shall provide technical support for Code 250, Code 260, Code 270, Code 280, and Code 290.

The Contractor, in support of Portsmouth Naval Shipyard's Deep Submergence Systems Program (DSSP), shall provide technical support for DSSP assets, which include the Submarine Rescue and Diving Recompression System (SRDRS) Program, Submarine Rescue Chamber (SRC), Submarine Escape and Immersion Equipment (SEIE) Program, Submarine Emergency position Indicating Radio Beacon (SEPIRB) and Special Operation Forces (SOF) Undersea Mobility Platforms. The contractor shall provide technical support for Code 205/206DSSP.

## 2.0 Period of Performance

The period of performance shall be from 01 October 2016 through 31 March 2017. The work shift may start no earlier than 0530 hours and end no later than 17:00 hours. The contractor will be required to conform to the work schedule as dictated by PNS. A ½ hour non billable lunch must be taken if working eight hours or more. The Contractor shall operate the Contractor Performance Assessment Reporting System (COPARS) during the sites normal operating hours Monday through Friday.

## 3.0 Place of Performance

The primary location of services is Portsmouth Naval Shipyard, Kittery ME.

## 4.0 Performance Requirements

4.1 Non-Personal Services Requirement: It shall be the responsibility of the contractor to manage its employees and to guard against any actions that are of the nature of personal services, or give the perception of personal services. If the contractor believes that any actions constitute, or are perceived to constitute personal services, it shall be the contractor's responsibility to notify the Procuring Contracting Officer (PCO) immediately.

4.2 Business Relations: The contractor shall successfully integrate and coordinate all activity needed to execute the requirement. The contractor shall manage the timeliness, completeness, and quality of problem identification. The contractor shall provide corrective action plans, proposal submittals, timely identification of issues. The contractor shall seek to ensure customer satisfaction and professional and ethical behavior of all contractor personnel.

4.3 Contract Administration and Management: The following subsections specify requirements for contract, management, and personnel administration.

4.4 Contract Management: The contractor shall establish clear organizational lines of authority and responsibility to ensure effective management of the resources assigned to the requirement.

4.5 Contract Administration: The contractor shall establish processes and assign appropriate resources to effectively administer the requirement. The contractor shall respond to Government requests for contractual actions in a timely fashion. The contractor shall have a single point of contact between the Government and Contractor personnel assigned to support contracts or task orders. The contractor shall assign work effort and maintaining proper and accurate time keeping records of personnel assigned to work on the requirement.

4.6 Personnel Administration: The contractor shall provide the following management and support as required. The contractor shall not provide employees during designated Government non-work days or other periods where Government offices are closed due to weather or security conditions. The contractor shall maintain the currency of their employees by providing initial and refresher training as required to meet the PWS requirements. The contractor shall provide administrative support to employees in a timely fashion (time keeping, leave processing, pay, emergency needs).

4.7 Contractor Personnel, Disciplines, and Specialties: The contractor shall accomplish the assigned work by employing and utilizing qualified personnel with appropriate combinations of education, training, and experience. The contractor shall match personnel skills to the work or task with a minimum of under/over employment of resources. The Contractor shall provide the necessary resources to manage, perform, and administer the contract. All contractor and subcontractor personnel shall be required to wear company picture identification badges so as to distinguish themselves from Government employees. When conversing with Government personnel during business meetings, over the telephone, or via electronic mail, contractor and subcontractor personnel shall identify themselves as such to avoid situations arising where sensitive topics might be better discussed solely between Government employees. Contractors shall identify themselves as contractors on any attendance sheet, or any coordination documents they may review. Electronic mail signatures shall identify company affiliation.

4.8 Basic Requirements: The contractor shall be required to enter data and information into various software systems in order to accomplish the tasks defined herein. Note that hardware and software can change systems that the contractor may be required to possess a working knowledge of are: Microsoft Office, including Word, Excel, Power Point, Access Database, and Outlook. Also, the contractor shall be required to work the Advanced Industrial Management (AIM) system, Material Requirements (MRQT, the ATIS and JEDMICS/ SHAPEC PROJECT Engineering database shall be used. The contractor will be knowable with shipyard organization and processes (DDGOS, E&PM, SUBSAFE Manual, Level one Control Manual, SubSafe Boundary Book, Authorized work packages and various SY Process Instructions, SHAPEC Instruction including TGI and Job Summary Guidelines. The Contractor shall perform the following tasks in accomplishing the requirements of this Task Order. The Contractor shall provide the necessary timely support to meet emergent requirements as requested by the Contracting Officer Representative (COR), program manager, technical point of contact, or other properly designated authority.

#### 5.0 Required Tasking

Portsmouth Naval Shipyard (PNS) requires the following engineering support:

##### 5.1 For Code 205/206 DSSP,

5.1.1 The contractor shall provide software engineering and analysis work which shall support DSSP Personnel. The work shall involve writing programs and developing data or spreadsheets that best show the results of the engineering work being accomplished by DSSP personnel.

5.1.2 The contractor shall investigate and develop answers to various engineering related problems including Liaison Action Reports, Drawing Reviews, Engineering Analysis, Safety Analysis and Lifting/Handling issues, drafting Memorandums of Agreement, schedule shipboard

repairs/installations/testing, and assist management in developing Statements of Work for testing at other facilities.

5.1.3 The contractor shall provide technical support for the Submarine Rescue and Diving Recompression System (SRDRS) Program; that includes both the Atmospheric Diving System (ADS2000) and the Submarine Rescue System (SRS) and all support equipment. The primary location for this task will be at Deep Submergence Unit San Diego, CA.

5.1.4 The contractor shall provide long term logistical planning and Planned Maintenance.

5.1.5 All work shall occur at Portsmouth Naval Shipyard except as discussed above.

5.1.6 Travel is anticipated.

5.2 For Code 245, 246, 250, Code 260, Code 270, Code 280, and Code 290,

5.2.1 The contractor shall have a working knowledge of the following Software; Advanced Industrial Management (AIM) and Material Requirements (MRQT).

5.2.2 The contractor shall provide technical support to develop the correct WBS based on the authorized work package for any project that SHAPEC is working.

5.2.3 The contractor shall provide technical support to develop budget guidance and workload. The Authorized Availability work package will be used to determine what tasks are needed to be developed.

5.2.4 The contractor shall provide technical support to develop review and edit Job Summaries.

5.2.5 The contractor shall provide technical support to develop prepare and review Task Group Instructions (TGIs).

5.2.6 The contractor shall provide technical support to research and order material necessary for authorized work.

5.2.7 The contractor shall provide technical support to develop review Deficiency Form (DF) problems (DLs and DRs) for availabilities assigned to SHAPEC and use this information to update the work instruction with Lessons learned.

5.2.8 The above-mentioned duties will occur at the contractor's site, at Portsmouth Naval Shipyard or at other sites as specified by PNS.

5.2.9 The contractor shall perform independent reviews of SHAPEC Job summaries and TGI's.

5.2.10 The contractor shall perform Work to test reviews.

5.2.11 The contractor shall perform material receipt inspections

6.0 Specific Required Tasking:

6.1 For Code 205/206 DSSP,

6.1.1 The Contractor shall provide PNS with on-site support for the SRDRS Program by performing the following tasks:

6.1.1.1 Provide on-site support for PNS at the Deep Submergence Unit, North Island Naval Air Station (DSU) during testing.

6.1.1.2 Review the in-process manufacturing and testing of SRDRS components.

6.1.1.3 Observe and provide assistance during SRDRS assembly and testing (factory, pier side and at-sea).

6.1.1.4 Review/comment on SRDRS certification and operation schedules.

6.1.1.5 Review other technical documents, as requested, for adequacy and provide comments.

6.1.1.6 Attend Design Review Meetings as required.

6.1.2 The Contractor shall provide PNS with on-site Computer Programming support for the SRDRS Program and other 200DSS assets by performing the following tasks:

6.1.2.1 Update of the Configuration Control Database for the DSSP Office.

6.1.2.2 Update the existing Liability Tracking Database for the DSSP Office.

6.1.2.3 Develop a maintenance and scheduling database for the SRS system.

6.1.2.4 Develop processes to ensure and protect data integrity for the DSSP Office.

6.1.2.5 Perform system testing and customer-oriented beta tests for database and database reporting efforts to ensure accuracy and user acceptance of data and reporting tools.

6.1.2.6 Develop Database Entity Relationship Diagram, System Schematics, Reporting Instructions and user training as necessary.

6.1.2.7 Integration of multiple databases to provide one solution for Spare Parts Inventory, Design Configuration Control and Liability Management.

6.1.3 The Contractor shall provide PNS with on-site support for the SRDRS Program, SEIE and other 200DSS assets by performing the following tasks:

6.1.3.1 Assist in updating and maintaining the Hazard Analysis for the SRDRS components.

6.1.3.2 Develop Field Change Proposals for SRDRS assets.

- 6.1.3.3 Review other technical documents, as requested, for adequacy and provide comments.
  - 6.1.3.4 Attend Design Review meetings as required.
  - 6.1.3.5 Assist NAVSEA PMS394 Program Office as requested with foreign military submarine rescue agreements, certification preparations and meeting coordination.
  - 6.1.3.6 Attend SRDRS Overhaul/Refurbishment Planning meetings.
  - 6.1.3.7 Review and evaluation of condition reports submitted by on-site installation teams.
  - 6.1.3.8 Assist in planning future SEIE installation for SSN688, TRIDENT and SEAWOLF class submarines. Requires working with Fleet Type Commander and Submarine Squadrons to establish or revise installation schedules.
  - 6.1.3.9 Technical support during installation certification periods including Drafting of MOA's, monitoring Installation Contractor cost adherence and preparation of SUBSAFE Certification and Scope of Certification messages.
  - 6.1.3.10 Provide recommendations of material ordering and monitoring for SEIE inventory and arranging shipment to installation location.
  - 6.1.3.11 The Contractor shall work logistics and develop estimates for the SEIE program. The Contractor shall apply Shipyard production processes and Technical Specification TS9090-310E, Alterations to ships Accomplished by Alteration Installation Teams. The Contractor shall assist in drafting Memorandum of Agreements between Naval Shipyards, Fleet and Installation Contractors.
- 6.1.4 The Contractor shall provide PNS with on-site support for the SRDRS Program by performing the following tasks:
- 6.1.4.1 Provide on-site support for PNS at the Deep Submergence Unit, North Island Naval Air Station (DSU).
  - 6.1.4.2 Assist PNS San Diego Representative with Production Management and Material Procurement/Sourcing.
  - 6.1.4.3 Compile data and information on manning future requirements to support SRDRS functions
  - 6.1.4.4 Compile data and information on operational plan requirements and operating procedures.
  - 6.1.4.5 Review/comment on SRDRS certification and operation schedules.
  - 6.1.4.6 Review/comment on projected SRDRS support material estimates.
  - 6.1.4.7 Provide liaison support between DSU, San Diego CA and NAVSEA PMS394, Washington Navy Yard.



6.1.4.8 Assist NAVSEA PMS394 Program Office with establishing the Government Owned/Contractor Maintained Offices at Deep Submergence Unit SD.

6.1.4.9 Develop Memorandums of Agreements between the business office at Portsmouth Naval Shipyard and DSU, San Diego concerning contractor operators and/or support personnel.

6.1.4.10 Advise and provide recommendations to activities providing services to the SRDRS Program. This may include on-site visits to contractor activities.

6.1.4.11 Attend SRDRS Design Review Meetings as required.

6.1.4.12 Individual may be authorized use of government equipment/shipping and/or postal accounts directly relating to the SRDRS program in the San Diego area. Use of such equipment/accounts must be approved by Portsmouth Naval Shipyard, documented by the contractor, and reported in writing to the Shipyard.

6.1.5 The Contractor shall provide PNS with on-site support for 200DSS assets, by performing the following tasks:

6.1.5.1 Provide on-site support at PNS for the Deep Submergence Systems Program (DSSP) Office at Portsmouth Naval Shipyard for all aspects of Planned Maintenance relative to DSSP assets.

6.1.5.2 Development of Reliability-Centered Maintenance based organizational-level planned maintenance.

6.1.5.3 Prepare PMS change recommendations in response to Technical Feedback Reports.

6.1.5.4 Develop and revise PMS documentation for DSSP assets.

6.1.5.5 Review PMS documentation developed by supporting activities.

6.1.5.6 Provide liaison support between DSU, San Diego CA and NAVSEA PMS394, Washington Navy Yard with regard to Planned Maintenance issues.

6.1.5.7 Prepare correspondence with technical justification with regard to Planned Maintenance issues.

6.1.5.8 Conduct on-site visits to various DSSP assets in order to provide required technical support as aforementioned.

6.1.5.9 The Contractor shall provide logistician services to support DSSP asset components and facilities, logistics and maintenance requirements for each component. The Contractor shall also apply Shipyard production work processes and Reliability-Centered Maintenance (RCM) philosophy in development of Planned Maintenance System Requirements. The Contractor shall manage and supervise logistics and production projects associated with overall and maintenance of DSS assets

6.2 For Code 280,

- 6.2.1 Maintain SHAPEC processes and procedures; develop and maintain Corporate SHAPEC Job Summary (JS) and Task Group Instruction (TGI) Guidelines and associated reference files
- 6.2.1.1 Develop and maintain Standard Notes and Standard Technical Requirements to support automated Technical Work Document (TWD) preparation
- 6.2.1.2 Perform reviews of Departures From Specifications (DFSs) to support SHAPEC certification process
- 6.2.1.3 Scope incoming technical directives and assist in the implementation of Naval Sea Systems Command (NAVSEA) corporate Uniform Industrial Process Instructions (UIPIs)
- 6.2.1.4 Take appropriate corrective action to address audit findings and Critique/Trouble Report recommendations.
- 6.2.1.5 Review and prepare process improvement for SHAPEC. Review quality program initiatives and advise SHAPEC Managers with any other SHAPEC process and quality related tasks
- 6.2.1.6 Provide technical support primarily in the Structural (Code 250), Piping/Mechanical (Code 260), Electrical/Electronic (Code 270) and Combat Systems (Code 290) Branches of SHAPEC with frequent interface with other Shipyard Departments/Offices and outside activities (e.g. other private and Naval Shipyards, SUBMEPP, NAVSEA, etc.)
- 6.2.1.7 Develop and Maintain SHAPEC Corporate Job Summary (JS) and Task Group Instruction (TGI) Guidelines and supporting Reference File instructions to standardize planning practices associated with Advanced Industrial Management (AIM) and its Material Requirements (MRQT) module
- 6.2.1.8 Maintain the Guidelines to reflect current processes and procedures, and issue updates on a timely basis. The contractor shall investigate and participate in resolving any problems or conflicts affecting the guidelines and initiate process improvements where possible. The contractor shall comply with NAVSEAINST 4790.24 (SSN Ship Availability Planning and Engineering Center (SHAPEC) Technical Work Instructions (Content and Preparation)), and other higher level instructions.
- 6.2.1.9 Develop and Maintain Corporate SHAPEC Standard Notes, Standard Technical Requirements, Quality Assurance (QA) Forms and Appendices
- 6.2.1.10 Support SHAPEC Certification Processes for Completion of Work
- 6.2.1.11 Review applicable corporate and shipyard databases (e.g. Technical Information Management (TIM), Business Management System (BMS)) to ensure Departures From Specifications (DFSs) have been adequately covered by SHAPEC products to support the work completion certification process
- 6.2.1.12 Scope incoming technical directives (including NAVSEA Instructions and Corporate UIPIs) and assist in implementing new or revised technical and quality requirements. The contractor shall also provide current status of UIPI implementation at various activities to SHAPEC technical codes

6.2.1.13 Investigate recommendations/findings from various Audit Reports, Critique Reports and Trouble Reports assigned to SHAPEC Director/Process Manager for corrective action. The contractor shall provide recommendations for implementing effective corrective action and assist in preparation of formal responses in a timely manner. Clearing these items may be required to support availability certification requirements

6.2.1.14 The advanced planning position requires knowledge of and experience with the Advanced Industrial Management (AIM) and Material Requirement (MRQT) data bases.

6.2.2 Contractor is task to support E-TWD, development and maintenance of SHAPEC Technical Assessment and development of new SHAPEC process improvements.

6.2.2.1 Participate in SHAPEC Process and Quality Improvement Initiatives and implementation of E-TWD process. The contractor will be assigned as the primary person representing SHAPEC on the E-TWD team

6.2.2.2 Must have knowledge in Content management principles and software.

6.2.2.3 Provide the process and training to convert the current SHAPEC TWD library into a content management system compatible with E-TWD.

6.2.2.4 Provides expert technical engineering advice and independently evaluates and analyses the scope of conventional and innovative problem areas and plans and recommends technically sound processes and solutions.

6.2.2.5 The contractor will review technical changes required for E-TWD and develop the required changes to the SHAPEC process to successful implement E-TWD.

6.2.2.6 The contractor will help develop necessary QA forms or data points in the E-TWD

6.2.2.7 The contractor shall participate in process and quality improvement initiatives (e.g. LEAN, E-TWD), provide input and recommendations and assist in implementation as related to SHAPEC processes and procedures. This shall include providing advice and consulting to SHAPEC managers and supervisors regarding quality program improvements.

6.2.2.8 Support Programming and development for an Access Database known as SPEAR

6.2.2.9 Act as senior member from SHAPEC on E-TWD team for SHAPEC Process and resolve issues between conflicting requirements.

6.2.2.10 Evaluate and respond to changes in schedules, or provides rationale as to the validity of such changes.

6.2.2.11 Prepare formal and informal comprehensive reports, interpreting and/or outlining the procedures and guidelines of task assigned with properly analyzed and valid conclusions and/or recommendations.

6.2.2.12 If assigned Review technical working documents such as Job Summaries and Task Group Instructions which break the work down to the shop man-hour level providing all phases of the job including, but not limited to, site preparation and restoration, pre-fabrication, rip out, modification, reinstallation and testing of cognizant system equipment or components for mechanical, electrical and structural areas assigned.

6.2.2.13 Develop training materials and conduct training for SHAPEC and/or shipyard processes.

6.2.2.14 Develop, monitor and maintain SHAPEC self Assessment as required by NAVSEA INST.

6.2.3 Miscellaneous Requirements Task.

6.2.3.1 Perform miscellaneous related work as required.

6.2.3.2 Use office automation software, practices and procedures in the performance of this task. Examples of these systems include electronic typewriters, personnel computers and associated equipment such as printers.

6.2.3.3 Acquire and maintain required reference publications

6.2.3.4 Assist in developing RMF packages

6.3 For Code 245,246,250, Code 260, Code 270, and Code 290,

6.3.1 Code 250 Task requirements as described below are indicative of expected requirements and should not be considered all-inclusive of the tasking that may be required, nor will every requirement described below necessarily be requested of the contractor if, as work progresses, an alternative and more efficient method is found to perform the work. Program specific information will be provided by the government when applicable. The contractor must have some experience with the below submarine systems.

6.3.1.1 Superstructure and Fairwater

6.3.1.2 Non-Pressure Hull

6.3.1.3 Tanks, Built-in

6.3.1.4 Internal Structural Bulkheads

6.3.1.5 Submarine Structural welding

6.3.1.6 Submarine Unrestricted Operations/Maintenance Requirement Cards (URO/MRC) requirements Pressure Hull Treatment, Special Hull treatment (SHT)

6.3.1.7 MIP (mold in place)

6.3.1.8 Tanks, Built-in Paint

6.3.1.9 Painting, Interior and Bilges

6.3.1.10 Coverings

6.3.1.11 Insulation (Hull, Bulkhead, Deck)

6.3.2 Code 260 Task requirements as described below are indicative of expected requirements and should not be considered all-inclusive of the tasking that may be required, nor will every requirement described below necessarily be requested of the contractor if, as work progresses, an alternative and more efficient method is found to perform the work. Program specific information will be provided by the government when applicable. The contractor must have some experience with the below submarine systems.

6.3.2.1 Ventilation

6.3.2.2 High Pressure Air

6.3.2.3 Steering and Diving (Hydraulics)

6.3.2.4 Low Pressure Blow

6.3.2.5 Service Air

6.3.2.6 Atmosphere Control

6.3.2.7 Oxygen (Main Oxygen and Oxygen Generator)

6.3.2.8 Emergency Ballast Tank Blow

6.3.2.9 Emergency Breathing Air

6.3.2.10 Ship's Service Hydraulic

6.3.2.11 External Hydraulic

6.3.2.12 Main Sea Water

6.3.2.13 Air Conditioning

6.3.2.14 Refrigeration

6.3.2.15 Plumbing

- 6.3.2.16 Trim
- 6.3.2.17 Potable Water
- 6.3.2.18 Buoyancy Control
- 6.3.2.19 Steering and Diving Mechanical
- 6.3.2.20 Mooring, Towing and Anchor Handling
- 6.3.2.21 Electronic Equipment Fresh Water Cooling
- 6.3.2.22 Auxiliary Sea Water
- 6.3.2.23 Drain
- 6.3.2.24 Hovering and Depth Control
- 6.3.2.25 Diesel Supporting
- 6.3.2.26 Snorkel
- 6.3.2.27 Main Steam (Non-Nuclear)
- 6.3.2.28 Main Propulsion Turbines
- 6.3.2.29 Secondary Propulsion

6.3.3 Code 270 Task requirements as described below are indicative of expected requirements and should not be considered all-inclusive of the tasking that may be required, nor will every requirement described below necessarily be requested of the contractor if, as work progresses, an alternative and more efficient method is found to perform the work. Program specific information will be provided by the government when applicable. The contractor must have some experience with the below submarine systems.

- 6.3.3.1 Electric Power Distribution
- 6.3.3.2 Motor Generator Sets
- 6.3.3.3 Interior Communications Systems
- 6.3.3.4 Electric Tank Level Systems
- 6.3.3.5 Switchboards
- 6.3.3.6 Submarine Batteries

#### 6.3.3.7 Electric Pressure Indicating Systems

#### 6.3.3.8 Provide training plans in the SSMG area

#### 6.3.3.9 Provide assistance in responding to management items

6.3.4 Code 290 Task requirements as described below are indicative of expected requirements and should not be considered all-inclusive of the tasking that may be required, nor will every requirement described below necessarily be requested of the contractor if, as work progresses, an alternative and more efficient method is found to perform the work. Program specific information will be provided by the government when applicable. The contractor must have some experience with the below submarine systems.

#### 6.3.4.1 Torpedo Tubes

#### 6.3.4.2 Weapons Handling and Stowage

#### 6.3.4.3 3 Inch Launcher

#### 6.3.4.4 Signal Ejectors

#### 6.3.4.5 Vertical Launch

#### 6.3.4.6 Torpedo Ejection

#### 6.3.4.7 Radar

#### 6.3.4.8 Navigation

#### 6.3.4.9 Sonar, Active & Passive

#### 6.3.4.10 Radio

#### 6.3.4.11 Fire Control

6.3.5 Subtask One: Develop Job Summaries and order material using Advanced Industrial Management (AIM) and Material Requirements (MRQT), respectively. The contractor shall provide SHAPEC on-site technician support for development of Job Summaries for the above systems when authorized by a submarine hull specific AWP. A Job Summary establishes the boundary for work in a Ship's Work List Item Number (SWLIN) based on some common relationship. A Job Summary is a group of Component Unit (CU) Phases that accomplish work in a SWLIN and provides a structured collection of specialized information to enable further work, scheduling and management review of the work. The contractor shall,

6.3.5.1 Review the line items assigned to them by SHAPEC Management from the Availability Work Package (AWP) and determine the necessary phases of work required to complete the authorized work.

6.3.5.2 Review for correct Work Breakdown Structure IAW Job Summary guidelines update as necessary

6.3.5.3 Using the Advanced Industrial Management (AIM) software, copy phases from a history project or create new CU phases

6.3.5.4 Review or create tasks at the shop trade skill level to complete work

6.3.5.5 Review identify hours and duration for each task and verify that they are IAW Job summary guidelines and corporate SHAPEC estimates

6.3.5.6 Use the Advanced Industrial Management (AIM) software and the Job summary guidelines create or review that each phase of work is properly tied to line items, references, special requirements, area of responsibilities and related other work.

6.3.5.7 Identify or update the required material needed using maintenance standards, drawings input these into Material Requirements software (MRQT)

6.3.5.8 Be provided access to the Shipyard Local Area Network (LAN), as required to access information and to develop Job Summaries. Prior to being allowed access to the Shipyard LAN, CACI employees must read and understand the Shipyard Computer Security Handbook 1996 (copy provided) and sign off that this training is complete. The contractor must also comply with SECNAVINST and PTSMHINST 5239.2A (copies provided)

6.3.5.9 Perform all the above and provide guidance to Junior Technician when necessary. These tasks would include determining correct hull to use as a template when there is not a clear match. Determining what hull to use for lessons learned when there is not a clear choice. Perform independent reviews to insure that Job Summaries meet above requirements.

6.3.5.10 MEASURABLE PERFORMANCE for SUBTASK 1:

6.3.5.10.1 Code 260: Prepare/edit 50 Job Summaries

6.3.5.10.2 Code 270: Prepare/edit 5 job summaries

6.3.5.10.3 Code 250: Prepare/edit 10 job summaries

6.3.5.10.4 Code 290: Prepare/edit 25 job summaries

6.3.6 Subtask Two: Prepare Task Group Instructions (TGIs) using templates and a database provided by the Shipyard. The Shipyard will assist with AIM training. The contractor shall be provided access to the Shipyard Local Area Network (LAN) as required to access information and to prepare or revise TGIs. TGI is the AIM document that provides detailed work instructions and technical information for accomplishment of specific work in a Component Unit Phase. The contractor shall,

6.3.6.1 Review AWP and Job Summary and determine scope of work



6.3.6.2 Identify best project to roll TGI from by comparing like work and using SHAPEC requirements matrix.

6.3.6.3 Review applicable drawings and other technical documentation that applies and update TGI for applicable hull.

6.3.6.4 Review and insure that TGI meets all requirements IAW the SHAPEC TGI Guidelines

6.3.6.5 Review and insure that technical information in the TGI meets the requirements of the SUBSAFE program, Level 1 material control program, Scope of cert program, fly by wire program, Deep diving general specification manual (DDGOS), Submarine maintenance standards, Tech manuals and applicable drawings as required.

6.3.6.6 Be provided access to the Shipyard Local Area Network (LAN), as required to access information and to develop Job Summaries. Prior to being allowed access to the Shipyard LAN, CACI employees must read and understand the Shipyard Computer Security Handbook 1996 (copy provided) and sign off that this training is complete. The contractor must also comply with SECNAVINST 5239.2 and PTSMHINST 5239.2A (copies provided).

6.3.6.7 Perform all the above and provide guidance to junior technician when necessary. These tasks would include determining correct hull to use as a template when there is not a clear match. Determining what hull to use for lessons learned when there is not a clear choice. Perform independent reviews to insure that TGI's meet above requirements.

6.3.6.8 Measurable Performance for subtask two:

6.3.6.8.1 Code 250: Prepare/edit 825 TGIs.

6.3.6.8.2 Code 260: Prepare/edit 300 TGIs.

6.3.6.8.3 Code 270: Prepare/edit 112.5 TGIs.

6.3.6.8.4 Code 290: Prepare/edit 500 TGIs.

6.3.7 Subtask Three: Contractor shall Provide deficiency Forms (DLs, and SHAPEC action request forms (SHARS) all labor categories. DLs identify problems found by the waterfront codes during issue or accomplishment of TGIs which require resolution. DRs report problems which are beyond the scope of authorized work and/or shipboard deficiencies as result of inspections required by TGIs. The contractor shall investigate and review these and update information in Job summaries and TGI's that the contractor is assigned. The contractor shall,

6.3.7.1 Review SHAPEC requirements matrix and HIT KIT for the same job that is assigned and insure that all lessons learned are incorporated into TGI.

6.3.7.2 Review DR's that have been identified as applicable to your job by SHAPEC management and incorporate as necessary.

6.3.7.3 Review SHARS and incorporate as necessary

6.3.7.4 MEASURABLE PERFORMANCE for SUB TASK 3:

6.3.7.4.1 Code 250: Review hit KIT for 825 TGI's written, Review Hit Kit for 10 Job summaries prepared / edited, and Review 15 SHARS.

6.3.7.4.2 Code 260: Review hit KIT for 300 TGI's written, Review Hit Kit for 50 Job summaries prepared / edited, and Review 15 SHARS.

6.3.7.4.3 Code 270: Review hit KIT for 112.5 TGI's written, Review Hit Kit for 5 Job summaries prepared / edited, and Review 5 SHARS.

6.3.7.4.4 Code 290: Review hit KIT for 450 TGI's written, Review Hit Kit for 30 Job summaries prepared / edited, and Review 13 SHARS.

6.3.8 Subtask Four: Sales Cost Estimates. All labor categories. The contractor shall prepare cost estimates resulting from Job Summary and additional ShipAlts authorized. The Contractor shall,

6.3.8.1 Review the estimate at the task level and verify that it meets the requirements of the SHAPEC guidelines. Update as necessary.

6.3.8.2 Compare estimates to corporate planning estimates and make sure they are equal for like work

6.3.8.3 MEASURABLE PERFORMANCE for SUBTASK 4:

6.3.8.3.1 Code 250: Review estimates for 10 Job Summaries

6.3.8.3.2 Code 260: Review estimates for 50 Job Summaries

6.3.8.3.3 Code 270: Review estimates for 5 Job Summaries

6.3.8.3.4 Code 290: Review estimates for 25 Job Summaries

6.3.9 Subtask Five: Quality Control Senior Technician or Engineer. The contractor shall provide detailed reviews of software products to ensure compliance with established procedures. The contractor shall,

6.3.9.1 Perform independent reviews of TGIs and insure that they meet the requirements of the TGI guidelines and all referenced technical information

6.3.9.2 For Codes 250, 260 and 290, provide Independent Review of Job summaries and insure that they meet the requirements of the job summary guidelines and all referenced technical information. For code 270, Provide Independent review of the required URO/MRC requirements to insure that all required URO/MRC's are covered by the TGI.

6.3.9.3 For Code 260, review SUBSAFE TGI's.

6.3.9.4 For Codes 260 and 250, Perform Independent review of welding requirements to insure that all welding meets the requirements of Portsmouth process instructions and MIL-STD 278 and MIL-STD 1688.

6.3.9.5 Perform Independent review of the required URO/MRC requirements to insure that all required URO/MRC's are covered by the TGI.

6.3.9.6 For Codes 250, 260, and 270, investigate and develop answers to various engineering related problems including Liaison Action Reports, Drawing Reviews, Engineering Analysis, Safety Analysis.

6.3.9.7 For Codes 250, 260, and 270, provide software engineering and analysis work which shall support SHAPEC Personnel. The work shall involve writing programs and developing data or spreadsheets that best show the results of the engineering work being accomplished by SHAPEC personnel

6.3.9.8 MEASURABLE PERFORMANCE for SUBTASK 5:

6.3.9.8.1 Code 250: senior tech review 1000 TGIs, engineer perform 200 weld reviews, and senior tech review 75 job summaries.

6.3.9.8.2 Code 260: Tech review 1250 TGIs and Tech review 350 TGI QA Reviews

6.3.9.8.3 Code 270: engineer perform 250 TGIs and engineer review 75 job summaries

6.3.9.8.4 Code 290: senior tech review 500 TGIs, senior tech review 100 weld/URO/MRC Reviews, and senior tech review 200 job summaries

6.3.10 GENERAL MEASURABLE PERFORMANCE: The contractor shall be measured in performance of assigned duties by complying with established SHAPEC policies and procedures including adherence to schedules. The contractor will be required to complete all work assigned IAW with the SHAPEC due date per their work lists.

## 7.0 Travel Requirements

7.1 The Contractor shall be required to travel using commercial air. Air travel will be in compliance with the Federal Travel Regulation.

## 8.0 Training Requirements

8.1 The contractor may be required to participate in the required annual training offered by the SY in order to be to perform above tasks. This training will be conducted onsite online or classroom

## 9.0 Deliverables

9.1 The contractor shall submit technical and financial progress reports on a monthly basis in accordance with requirements of the contract. The monthly status reports shall outline projects/tasks being worked and finances.

## 10.0 Government Furnished Property and Services

10.1 The Government will provide the necessary adequate workspace including basic office equipment utilities, computer, telephone, and related services at the work location. The hardware used onsite will be provided by the Government and will consist of workstations running Windows XP, the required Microsoft Suite of Office products, the Maintenance Resource Management System (MRMS), Shift Operations Management System (SOMS), Advanced Industrial Management (AIM) and other resources required by the client. All products developed to support this task are the property of the Government and shall be turned over upon request

## 11.0 Security

11.1 For Code 205/206, the contractor's employees shall have, at a minimum, a Final Secret Security Clearance to support sensitive Virginia class submarine technology. For Codes 250, 260, 270, 280, and 290, The Contractor's employees shall have as a minimum, a DOD Final Confidential Security Clearance to support sensitive submarine technology.

11.2 The security level eligibility and access must be in JPAS

11.3 It shall be the proposed contractor's responsibility to obtain appropriate security clearances as required by the U.S. Navy for all company personnel, including those of proposed subcontractors who will be involved in classified portions of work or who will require access to restricted areas. Contractor's personnel to include subcontractor if performing work on Government Installations must possess proof of US citizenship as a minimum.

11.4 A Department of Defense Contract Security Classification (DD254) will be provided to the contractor to meet security requirements of the PWS.

11.5 The Contractor shall require a Common Access Card (CAC) in order to gain access to the Shipyard. The Shipyard is transitioning to the Navy Commercial Access Control System (NCACS). Depending on the timing of the transition the Contractor may have to register with NCACS to receive a CAC like card to access the Shipyard

11.6 The Contractor shall not require access to Nuclear Work Areas (NWA) and engine rooms of nuclear powered submarines.

11.7 The contractor shall provide detailed reviews of software products to ensure compliance with established procedures.

11.8 Information handled by the Contractor may be subject to the Privacy Act. Therefore, Contractor personnel must become familiar with and comply with the provisions of appropriate regulations and/or instructions concerning Privacy Act information.

11.9 Access to Business Sensitive information may be required for Contractor personnel. Therefore, Contractor personnel must be trusted to handle Business Sensitive information.

12.0 Labor Categories Estimated Hours for Personnel:

\*Asterisks denotes resumes required

12.1 For Code 205/206 DSS,

\*Sr. Expert/Consultant [REDACTED]

\* Software Engr/Analyst [REDACTED]

\*SR Engineer [REDACTED]

\*Engineer [REDACTED]

\*Senior Engineering Technician [REDACTED]

Drafter [REDACTED]

Totals [REDACTED]

12.2 For Code 280,

\*Senior Engineer [REDACTED]

\*Senior Engineering Technician [REDACTED]

Engineer [REDACTED]

\* Software Engr/Analyst [REDACTED]

42 Days of travel required Approx [REDACTED]

Total [REDACTED]

12.3 For Code 260,

\* Engineer (Mech) [REDACTED]

\*Sr.Engineering Tech (Mech) [REDACTED]

Engineering Tech(Mech) [REDACTED]

Total Hours [REDACTED]

12.4 For Code 270,

\*Engineer, Electrical [REDACTED]

Engineering Tech, Elec [REDACTED]

\*Senior Engineering Technician ELEC [REDACTED]

\*Logistician [REDACTED]

Total Hours [REDACTED]

12.5 For Code 250,

\*Sr. Engr Tech (Nav Arch) [REDACTED]

\* Engr (Nav Arch) [REDACTED]

Engr Tech (Nav Arch) [REDACTED]

Total Hours [REDACTED]

12.6 For Code 245

\*Logistician [REDACTED]

\*SR ENG Tech [REDACTED]

Total Hours [REDACTED]

12.7 For Code 246

\*SR ENG Tech [REDACTED]

Total Hours [REDACTED]

12.8 For Code 290,

\*Sr. Engr Tech, Mech [REDACTED]

Engineering Tech, Mech [REDACTED]

Total Hours [REDACTED]

### 13.0 Personnel Qualifications

13.1 The following are descriptions of the minimum experience and educational requirements identified by the Government as necessary for the respective labor categories. The specialized experience, included as part of the required qualifications, shall have been obtained in the field of endeavor indicated by the applicable Job Title shown below. All personnel shall be fully capable of performing in an efficient, reliable, and professional manner. If the contractor does not identify the labor categories listed below by the same specific title, then a cross-reference list shall be provided as part of the proposal.

13.2 The Government may, at any time, request resumes of contractor personnel. If the Contracting Officer questions the qualifications or competence of any person performing under the contract, the burden of proof to sustain that the person is qualified as prescribed herein shall be upon the contractor

13.3 The contractor shall have the personnel, organization, and administrative control necessary to ensure that the services performed meet all requirements specified in delivery/task orders. The work history of each contractor employee shall contain experience directly related to the tasks and functions to be assigned. The Contracting Officer reserves the right to determine if a given work history contains necessary and sufficiently detailed, related experience to reasonably ensure the ability for effective and efficient performance.

13.4 All labor categories for individuals performing on Government Installations require U.S. Citizenship.

13.5 Minimum requirements by code:

13.5.1 For Code 205/206 DSS,

13.5.1.1 \*SR. EXPERT/CONSULTANT SUPPORT

13.5.1.1.1 A total of 10 years of increasing responsibility within the Deep Ocean Environment including Atmospheric Diving Systems, Tethered Submarine Rescue Systems, Robotics and Manipulators.

13.5.1.1.2 A minimum of seven (7) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles

13.5.1.1.3 A minimum of five (5) years practical experience in the management and development, of the Atmospheric Diving System (ADS) at a professional level with responsible engineering duties relative to design, manufacture, maintenance, operations, repair and testing of onboard equipment and systems.

13.5.1.1.4 Experience implementing the requirements for U. S. Navy Deep Submergence Systems including NSTM SS800-AG-MAN-010/P-9290.

13.5.1.1.5 In addition, the Senior Expert/Consultant shall be capable of administering all aspects of assigned tasks.

13.5.1.2 \*SOFTWARE ENGINEER/ANALYST

13.5.1.2.1 A minimum of 12 years experience with database development and integration.

13.5.1.2.2 Demonstrated expertise and ability in solving unique complex database and information systems problems efficiently.

13.5.1.2.3 A minimum of 6 years experience with Visual Basic and ACCESS programming and development.

13.5.1.2.4 Proven experience performing system testing and customer-oriented beta tests for database and database reporting efforts to ensure accuracy and user acceptance of data and data reporting tools.

13.5.1.3 LOGISTICIAN (GENERAL)

13.5.1.3.1 Experience with Navy logistics processes such as maintenance of Ship's Configuration and Logistics Support Information System SCLISIS, Configuration Data Manager's Database - Open Architecture, CDMD-OA and experience with procurement of researching ships material and tracking logistics data such as: spare parts, drawings, tech manuals, COTS manuals, training material; and

13.5.1.3.2 The ability to develop, test and deliver configuration and logistic management systems designed to provide clients with logistics technology to ensure effective and economical support for manufacturing and servicing products, systems or equipment. The ability to plan and develop logistics program activities, coordinate efforts of personnel at the contractor's site as well as at remote locations, and resolve logistics problems to meet contractual commitment; and

13.5.1.3.3 Must be capable of performing all the duties of the Configuration Management Agent; and



13.5.1.3.4 Individual must have the ability to read/interpret engineering drawings, revision notices (RNs), Engineering Change Proposals (ECPs), and equipment/component specifications.

#### 13.5.1.4 ENGINEERING TECHNICIAN

13.5.1.4.1 A minimum of five (5) years experience involving design and drawing development for construction or the overhaul and repair of equipment or components with at least two (2) of these years spent preparing or checking engineering drawings in the specialty described below:

- 13.5.1.4.1.1 Naval Architecture
- 13.5.1.4.1.2 Foundations
- 13.5.1.4.1.3 Primary/Secondary Structures
- 13.5.1.4.1.4 Sheet Metal
- 13.5.1.4.1.5 Arrangement of Equipment
- 13.5.1.4.1.6 Weight & Moment and Stability
- 13.5.1.4.1.7 Mechanical
- 13.5.1.4.1.8 Hydraulics
- 13.5.1.4.1.9 Air Conditioning and Ventilation
- 13.5.1.4.1.10 Air/Gases
- 13.5.1.4.1.11 Seawater/Freshwater Piping
- 13.5.1.4.1.12 Mechanical Components
- 13.5.1.4.1.13 Electrical/Electronics
- 13.5.1.4.1.14 Power and Lighting
- 13.5.1.4.1.15 Interior Communications
- 13.5.1.4.1.16 Wireways/Cable Routing
- 13.5.1.4.1.17 Electrical/Electronics Systems
- 13.5.1.4.1.18 Batteries

13.5.1.4.2 This experience must include a working knowledge of CAD/CAM, controlled work packages, work certification/documentation (Scope of Certification), and work control processes such as Tag Out and Re-entry Control

13.5.2 For Code 280,

13.5.2.1 \*SENIOR ENGINEER (SHAPEC & WF SPRT)

13.5.2.1.1 A minimum of ten (10) years practical experience at a professional level, in responsible engineering duties relative to design, maintenance, operations, repair and testing of mechanical/piping equipment and systems such as: hydraulics, air conditioning, ventilation, air/gases, sea water/fresh water and life support systems such as oxygen and carbon dioxide; and

13.5.2.1.2 Experience must include performing complex engineering calculations such as heat transfer, fluid flow, piping stress, mechanical stress etc.

13.5.2.1.3 In addition to the technical requirements, the Senior Mechanical Engineer shall be capable of administering all aspects of assigned tasks. If required, the individual would also serve as the contractor's point of contact with the Government on mechanical engineering tasks.

13.5.2.2 \*SENIOR ENGINEERING TECHNICIAN (SHAPEC & WF SPRT)

13.5.2.2.1 High School Diploma (or GED equivalent) with a minimum of two (2) years post high school academic study in which credits were received in algebra, plane geometry, trigonometry, drafting, and physics; and

13.5.2.2.2 A minimum of Three (3) years training and experience with the Advanced Industrial Management system (AIM); and

13.5.2.2.3 A minimum of Fifteen (15) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles, submarines and submarine rescue vehicles, with at least two (8) of these years spent checking Engineering drawings in one or more of the disciplines described below:

13.5.2.2.3.1 Naval Architecture

13.5.2.2.3.2 Foundations

13.5.2.2.3.3 Primary/Secondary Structures

13.5.2.2.3.4 Sheet Metal

13.5.2.2.3.5 Arrangement of Equipment

13.5.2.2.3.6 Weight & Moment and Stability

13.5.2.2.3.7 URO/MRC Hull Survey

- 13.5.2.2.3.8 Preservation, Coatings, and Coverings
- 13.5.2.2.3.9 Mechanical
- 13.5.2.2.3.10 Hydraulics
- 13.5.2.2.3.11 Air Conditioning and Ventilation
- 13.5.2.2.3.12 Air/Gases
- 13.5.2.2.3.13 Seawater/Freshwater
- 13.5.2.2.3.14 Propulsion
- 13.5.2.2.3.15 Mechanical (Code 290, CSO)
- 13.5.2.2.3.16 Torpedo Tubes
- 13.5.2.2.3.17 3" Launcher (Need to also have knowledge and experience with a., c., or d..)
- 13.5.2.2.3.18 Weapons Handling
- 13.5.2.2.3.19 Vertical Launch System
- 13.5.2.2.3.20 Masts and Antennas
- 13.5.2.2.3.21 Towed Array Systems
- 13.5.2.2.3.22 Electrical/Electronics
- 13.5.2.2.3.23 Power and Lighting
- 13.5.2.2.3.24 Interior Communication
- 13.5.2.2.3.25 Wireways Cable Routing
- 13.5.2.2.3.26 Electrical/Electronics Systems
- 13.5.2.2.3.27 SONAR Systems
- 13.5.2.2.3.28 RADAR Systems
- 13.5.2.2.3.29 Navigation Systems
- 13.5.2.3 ENGINEER (SHAPEC & WF SPRT)

13.5.2.3.1 A minimum of five (5) years practical experience, at a professional level, in responsible engineering duties involving design and working plan development for construction or the overhaul and repair of mechanical/piping systems such as the following: hydraulics, air conditioning, ventilation, air/gases, sea water/fresh water and life support systems such as oxygen and carbon dioxide; and

13.5.2.3.2 Experience must include performing complex engineering calculations such as heat transfer, fluid flow, piping stress, mechanical stress etc.

13.5.3 For Code 260,

13.5.3.1 \*Jr Mechanical Engineer (SHAPEC and WF support)

13.5.3.1.1 The Contractor's personnel must show that their education, training, and experience furnished a thorough knowledge of the physical and mathematical sciences underlying professional engineering. Furthermore they must show a good understanding of both theoretical and practical knowledge of the engineering sciences, techniques, and their applications to one of the branches of engineering. This knowledge and understanding must be equivalent to that provided by a full four-year professional engineering curriculum. In addition, the adequacy of such background must be demonstrated by one of the following:

13.5.3.1.1.1 Professional Registration

13.5.3.1.1.2 Written Test

13.5.3.1.1.3 Specific Academic Courses

13.5.3.1.1.4 Related Curriculum F

13.5.3.1.2 Provided you have had at least one year of professional engineering experience acquired under professional engineering supervision and guidance. And

13.5.3.1.3 A minimum of six (6) months training and experience with the Baseline Advanced Industrial Management system (BAIM); and

13.5.3.1.4 A minimum of five (5) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles, submarines and submarine rescue vehicles, with at least two (2) of these years spent checking Engineering drawings in one or more of the disciplines described below:

13.5.3.1.4.1 Mechanical (Code 260)

13.5.3.1.4.1.1 Hydraulics

13.5.3.1.4.1.2 Air Conditioning and Ventilation

13.5.3.1.4.1.3 Air/Gases

13.5.3.1.4.1.4 Seawater/Freshwater Propulsion

13.5.3.1.4.2 Mechanical (Code 290, CSO)

13.5.3.1.4.2.1 Torpedo Tubes

13.5.3.1.4.2.2 3" Launcher (Need to also be qualified in

13.5.3.1.4.2.2.1 Weapons Handling

13.5.3.1.4.2.3 Vertical Launch System

13.5.3.1.4.2.4 Masts and Antennas

13.5.3.1.4.2.5 Towed Array Systems

13.5.3.2 \*SENIOR MECHANICAL ENGINEERING TECHNICIAN (SHAPEC & WF SPRT)

13.5.3.2.1 A minimum of Three (3) years training and experience with the Advanced Industrial Management system (AIM); and

13.5.3.2.2 A minimum of Fifteen (15) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles, submarines and submarine rescue vehicles, with at least two (8) of these years spent checking Engineering drawings in one or more of the disciplines described below:

13.5.3.2.2.1 Naval Architecture

13.5.3.2.2.1.1 Foundations

13.5.3.2.2.1.2 Primary/Secondary Structures

13.5.3.2.2.1.3 Sheet Metal

13.5.3.2.2.1.4 Arrangement of Equipment

13.5.3.2.2.1.5 Weight & Moment and Stability

13.5.3.2.2.1.6 URO/MRC Hull Survey

13.5.3.2.2.1.7 Preservation, Coatings, and Coverings

13.5.3.2.2.2 Mechanical

13.5.3.2.2.2.1 Hydraulics

13.5.3.2.2.2.2 Air Conditioning and Ventilation

- 13.5.3.2.2.2.3 Air/Gases
- 13.5.3.2.2.2.4 Seawater/Freshwater
- 13.5.3.2.2.2.5 Propulsion
- 13.5.3.2.2.3 Mechanical (Code 290, CSO)
  - 13.5.3.2.2.3.1 Torpedo Tubes
  - 13.5.3.2.2.3.2 3" Launcher (Need to also have knowledge and experience with a., c., or d..)
  - 13.5.3.2.2.3.3 Weapons Handling
  - 13.5.3.2.2.3.4 Vertical Launch System
  - 13.5.3.2.2.3.5 Masts and Antennas
  - 13.5.3.2.2.3.6 Towed Array Systems
- 13.5.3.2.2.4 Electrical/Electronics
  - 13.5.3.2.2.4.1 Power and Lighting
  - 13.5.3.2.2.4.2 Interior Communications
  - 13.5.3.2.2.4.3 Wireways Cable Routing
  - 13.5.3.2.2.4.4 Electrical/Electronics Systems
- 13.5.3.2.2.5 SONAR Systems
- 13.5.3.2.2.6 RADAR Systems
- 13.5.3.2.2.7 Navigation Systems
- 13.5.3.3 ENGINEERING TECHNICIAN (SHAPEC & WF SPRT)
  - 13.5.3.3.1 A minimum of six (6) months training and experience with the Baseline Advanced Industrial Management system (BAIM);and
  - 13.5.3.3.2 A minimum of five (5) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles, submarines and submarine rescue vehicles, with at least two (2) of these years spent checking Engineering drawings in one or more of the disciplines described below:

- 13.5.3.3.2.1 Naval Architecture
  - 13.5.3.3.2.1.1 Foundations
  - 13.5.3.3.2.1.2 Primary/Secondary Structures
  - 13.5.3.3.2.1.3 Sheet Metal
  - 13.5.3.3.2.1.4 Arrangement of Equipment
  - 13.5.3.3.2.1.5 Weight & Moment and Stability
  - 13.5.3.3.2.1.6 URO/MRC Hull Survey
  - 13.5.3.3.2.1.7 Preservation, Coatings, and Coverings
- 13.5.3.3.2.2 Mechanical
  - 13.5.3.3.2.2.1 Hydraulics
  - 13.5.3.3.2.2.2 Air Conditioning and Ventilation
  - 13.5.3.3.2.2.3 Air/Gases
  - 13.5.3.3.2.2.4 Seawater/Freshwater
  - 13.5.3.3.2.2.5 Propulsion
- 13.5.3.3.2.3 Mechanical (Code 290, CSO)
  - 13.5.3.3.2.3.1 Torpedo Tubes
  - 13.5.3.3.2.3.2 3" Launcher (Need to also have knowledge and experience with a., c., or d..)
  - 13.5.3.3.2.3.3 Weapons Handling
  - 13.5.3.3.2.3.4 Vertical Launch System
  - 13.5.3.3.2.3.5 Masts and Antennas
  - 13.5.3.3.2.3.6 Towed Array Systems
- 13.5.3.3.2.4 Electrical/Electronics
  - 13.5.3.3.2.4.1 Power and Lighting
  - 13.5.3.3.2.4.2 Interior Communications

13.5.3.3.2.4.3 Wireways Cable Routing

13.5.3.3.2.4.4 Electrical/Electronics Systems

13.5.4 For Code 270,

13.5.4.1 \*ELECTRICAL/ELECTRONIC ENGINEER (SHAPEC & WF SPRT)

13.5.4.1.1 The Contractor's personnel must show that their education, training, and experience furnished a thorough knowledge of the physical and mathematical sciences underlying professional engineering. Furthermore they must show a good understanding of both theoretical and practical knowledge of the engineering sciences, techniques, and their applications to one of the branches of engineering. This knowledge and understanding must be equivalent to that provided by a full four-year professional engineering curriculum. In addition, the adequacy of such background must be demonstrated by one of the following:

13.5.4.1.1.1 Professional Registration

13.5.4.1.1.2 Written Test

13.5.4.1.1.3 Specific Academic Courses

13.5.4.1.1.4 Related Curriculum F

13.5.4.1.2 Provided you have had at least one year of professional engineering experience acquired under professional engineering supervision and guidance. And

13.5.4.1.2.1 A minimum of six (6) months training and experience with the Baseline Advanced Industrial Management system (BAIM); and

13.5.4.1.2.2 A minimum of five (5) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles, submarines and submarine rescue vehicles, with at least two (2) of these years spent checking Engineering drawings in one or more of the disciplines described below:

13.5.4.1.2.2.1 Electrical/Electronics

13.5.4.1.2.2.1.1 Power and Lighting

13.5.4.1.2.2.1.2 Interior Communications

13.5.4.1.2.2.1.3 Wireways Cable Routing

13.5.4.1.2.2.1.4 Electrical/Electronics Systems

13.5.4.1.2.2.2 SONAR Systems



13.5.4.1.2.2.3 RADAR Systems

13.5.4.1.2.2.4 Navigation Systems

13.5.4.1.2.2.5 Radio Systems

13.5.4.1.2.2.6 Fire Control Systems

13.5.4.2 ENGINEERING TECHNICIAN (SHAPEC & WF SPRT)

13.5.4.2.1 A minimum of six (6) months training and experience with the Baseline Advanced Industrial Management system (BAIM); and

13.5.4.2.2 A minimum of five (5) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles, submarines and submarine rescue vehicles, with at least two (2) of these years spent checking Engineering drawings in one or more of the disciplines described below:

13.5.4.2.2.1 Naval Architecture

13.5.4.2.2.1.1 Foundations

13.5.4.2.2.1.2 Primary/Secondary Structures

13.5.4.2.2.1.3 Sheet Metal

13.5.4.2.2.1.4 Arrangement of Equipment

13.5.4.2.2.1.5 Weight & Moment and Stability

13.5.4.2.2.1.6 URO/MRC Hull Survey

13.5.4.2.2.1.7 Preservation, Coatings, and Coverings

13.5.4.2.2.2 Mechanical

13.5.4.2.2.2.1 Hydraulics

13.5.4.2.2.2.2 Air Conditioning and Ventilation

13.5.4.2.2.2.3 Air/Gases

13.5.4.2.2.2.4 Seawater/Freshwater

13.5.4.2.2.2.5 Propulsion

### 13.5.4.3 WORD PROCESSOR (GENERAL)

13.5.4.3.1 A minimum of two (2) years of current WINDOWS based PC spreadsheet, word processing and database experience.

13.5.5 For Code 250,

### 13.5.5.1 \*SENIOR ENGINEERING TECHNICIAN (GENERAL)

13.5.5.1.1 A minimum of ten (10) years practical experience in the overhaul and repair of nuclear submarines at the professional level with responsible engineering duties relative to the design of one of the following: stability and equilibrium, primary structures, secondary structures, sheet metal, foundations, hull survey, preservation, or arrangement of equipment for the Major Ships Systems outlined in the Statement of Work (SOW); and

13.5.5.1.2 At least two (2) of the practical years of experience must have involved design and working plan development for construction, conversion, or modernization of nuclear submarines in a specialty described above.

13.5.5.1.3 To perform work with submarine weights, moments, or stability a minimum of two (2) of the practical years of experience must have involved submarine or submersible stability and equilibrium.

13.5.5.1.4 In addition to the technical requirements, the Senior Naval Architect shall be capable of administering all aspects of assigned tasks. If required, the individual would also serve as the contractor's single point of contact with the Government on naval architectural tasks.

### 13.5.5.2 \*JUNIOR ENGINEER (SHAPEC & WF SPRT)

13.5.5.2.1 The Contractor's personnel must show that their education, training, and experience furnished a thorough knowledge of the physical and mathematical sciences underlying professional engineering.

13.5.5.2.2 Furthermore they must show a good understanding of both theoretical and practical knowledge of the engineering sciences, techniques, and their applications to one of the branches of engineering. This knowledge and understanding must be equivalent to that provided by a full four-year professional engineering curriculum. In addition, the adequacy of such background must be demonstrated by one of the following:

13.5.5.2.2.1 Professional Registration

13.5.5.2.2.2 Written Test

13.5.5.2.2.3 Specific Academic Courses

13.5.5.2.2.4 Related Curriculum F

13.5.5.2.3 F Provided you have had at least one year of professional engineering experience acquired under professional engineering supervision and guidance. And

13.5.5.2.4 A minimum of six (6) months training and experience with the Baseline Advanced Industrial Management system (BAIM); and

13.5.5.2.5 A minimum of five (5) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles, submarines and submarine rescue vehicles, with at least two (2) of these years spent checking Engineering drawings in one or more of the disciplines described below:

13.5.5.2.5.1 Naval Architecture (Code 250)

13.5.5.2.5.2 Foundations

13.5.5.2.5.3 Primary/Secondary Structures

13.5.5.2.5.4 Sheet Metal

13.5.5.2.5.5 Arrangement of Equipment

13.5.5.2.5.6 Weight & Moment and Stability

13.5.5.2.5.7 URO/MRC Hull Survey

13.5.5.2.5.8 Preservation, Coatings, and Coverings

13.5.5.3 ENGINEERING TECHNICIAN (SHAPEC & WF SPRT)

13.5.5.3.1 High School Diploma (or GED equivalent) with a minimum of two (2) years post high school academic study in which credits were received in algebra, plane geometry, trigonometry, drafting, and physics; and

13.5.5.3.2 A minimum of six (6) months training and experience with the Baseline Advanced Industrial Management system (BAIM); and

13.5.5.3.3 A minimum of five (5) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles, submarines and submarine rescue vehicles, with at least two (2) of these years spent checking Engineering drawings in one or more of the disciplines described below:

13.5.5.3.3.1 Naval Architecture

13.5.5.3.3.1.1 Foundations

13.5.5.3.3.1.2 Primary/Secondary Structures

- 13.5.5.3.3.1.3 Sheet Metal
- 13.5.5.3.3.1.4 Arrangement of Equipment
- 13.5.5.3.3.1.5 Wright & Moment and Stability
- 13.5.5.3.3.1.6 URO/MRC Hull Survey
- 13.5.5.3.3.1.7 Preservation, Coatings, and Coverings
- 13.5.5.3.3.2 Mechanical
  - 13.5.5.3.3.2.1 Hydraulics
  - 13.5.5.3.3.2.2 Air Conditioning and Ventilation
  - 13.5.5.3.3.2.3 Air/Gases
  - 13.5.5.3.3.2.4 Seawater/Freshwater
  - 13.5.5.3.3.2.5 Propulsion
- 13.5.5.3.3.3 Mechanical (Code 290, CSO)
  - 13.5.5.3.3.3.1 Torpedo Tubes
  - 13.5.5.3.3.3.2 3" Launcher (Need to also have knowledge and experience with a., c., or d.)
  - 13.5.5.3.3.3.3 Weapons Handling
  - 13.5.5.3.3.3.4 Vertical Launch System
  - 13.5.5.3.3.3.5 Masts and Antennas
  - 13.5.5.3.3.3.6 Towed Array Systems
- 13.5.5.3.3.4 Electrical/Electronics
  - 13.5.5.3.3.4.1 Power and Lighting
  - 13.5.5.3.3.4.2 Interior Communications
  - 13.5.5.3.3.4.3 Wireways Cable Routing
  - 13.5.5.3.3.4.4 Electrical/Electronics Systems
  - 13.5.5.3.3.4.5 SONAR Systems

13.5.5.3.3.4.6 RADAR Systems

13.5.5.3.3.4.7 Navigation Systems

13.5.6 For Code 290,

13.5.6.1 \*SENIOR MECHANICAL ENGINEERING TECHNICIAN (SHAPEC & WF SPRT)

13.5.6.1.1 A minimum of Three (3) years training and experience with the Advanced Industrial Management system (AIM); and

13.5.6.1.2 A minimum of Fifteen (15) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles, submarines and submarine rescue vehicles, with at least two (8) of these years spent checking Engineering drawings in one or more of the disciplines described below:

13.5.6.1.2.1 Naval Architecture

13.5.6.1.2.1.1 Foundations

13.5.6.1.2.1.2 Primary/Secondary Structures

13.5.6.1.2.1.3 Sheet Metal

13.5.6.1.2.1.4 Arrangement of Equipment

13.5.6.1.2.1.5 Weight & Moment and Stability

13.5.6.1.2.1.6 URO/MRC Hull Survey

13.5.6.1.2.1.7 Preservation, Coatings, and Coverings

13.5.6.1.2.2 Mechanical

13.5.6.1.2.2.1 Hydraulics

13.5.6.1.2.2.2 Air Conditioning and Ventilation

13.5.6.1.2.2.3 Air/Gases

13.5.6.1.2.2.4 Seawater/Freshwater

13.5.6.1.2.2.5 Propulsion

13.5.6.1.2.3 Mechanical (Code 290, CSO)

- 13.5.6.1.2.3.1 Torpedo Tubes
- 13.5.6.1.2.3.2 3" Launcher (Need to also have knowledge and experience with a., c., or d..)
- 13.5.6.1.2.3.3 Weapons Handling
- 13.5.6.1.2.3.4 Vertical Launch System
- 13.5.6.1.2.3.5 Masts and Antennas
- 13.5.6.1.2.3.6 Towed Array Systems
- 13.5.6.1.2.4 Electrical/Electronics
  - 13.5.6.1.2.4.1 Power and Lighting
  - 13.5.6.1.2.4.2 Interior Communications
  - 13.5.6.1.2.4.3 Wireways Cable Routing
  - 13.5.6.1.2.4.4 Electrical/Electronics Systems
- 13.5.6.1.2.5 SONAR Systems
- 13.5.6.1.2.6 RADAR Systems
- 13.5.6.1.2.7 Navigation systems
- 13.5.6.2 ENGINEERING TECHNICIAN (SHAPEC & WF SPRT)
  - 13.5.6.2.1 A minimum of six (6) months training and experience with the Baseline Advanced Industrial Management system (BAIM); and
  - 13.5.6.2.2 A minimum of five (5) years experience involving design, drawing development for construction, conversion or the overhaul and repair of deep submergence vehicles, submarines and submarine rescue vehicles, with at least two (2) of these years spent checking Engineering drawings in one or more of the disciplines described below:
    - 13.5.6.2.2.1 Naval Architecture
      - 13.5.6.2.2.1.1 Foundations
      - 13.5.6.2.2.1.2 Primary/Secondary Structures
      - 13.5.6.2.2.1.3 Sheet Metal
      - 13.5.6.2.2.1.4 Arrangement of Equipment

- 13.5.6.2.2.1.5 Wright & Moment and Stability
- 13.5.6.2.2.1.6 URO/MRC Hull Survey
- 13.5.6.2.2.1.7 Preservation, Coatings, and Coverings
- 13.5.6.2.2.2 Mechanical
  - 13.5.6.2.2.2.1 Hydraulics
  - 13.5.6.2.2.2.2 Air Conditioning and Ventilation
  - 13.5.6.2.2.2.3 Air/Gases
  - 13.5.6.2.2.2.4 Seawater/Freshwater
  - 13.5.6.2.2.2.5 Propulsion
- 13.5.6.2.2.3 Mechanical (Code 290, CSO)
  - 13.5.6.2.2.3.1 Torpedo Tubes
  - 13.5.6.2.2.3.2 3" Launcher (Need to also have knowledge and experience with a., c., or d.)
  - 13.5.6.2.2.3.3 Weapons Handling
  - 13.5.6.2.2.3.4 Vertical Launch System
  - 13.5.6.2.2.3.5 Masts and Antennas
  - 13.5.6.2.2.3.6 Towed Array Systems
- 13.5.6.2.2.4 Electrical/Electronics
  - 13.5.6.2.2.4.1 Power and Lighting
  - 13.5.6.2.2.4.2 Interior Communications
  - 13.5.6.2.2.4.3 Wireways Cable Routing
  - 13.5.6.2.2.4.4 Electrical/Electronics Systems
- 13.5.6.2.2.5 SONAR Systems
- 13.5.6.2.2.6 RADAR Systems

13.5.6.2.2.7 Navigation Systems

14.0 Status Report Requirements

14.1 Status reports shall contain a cover letter including the following:

14.1.1 The date of the Cover Letter

14.1.2 The Status Report shall be addressed to:

Commander, Portsmouth Naval Shipyard  
Purchase Division  
Portsmouth Naval Shipyard  
Portsmouth, NH 03801-2590

14.1.3 There shall be a subject line describing the task being reported

14.1.4 There shall be a subject line describing the task being reported

14.1.5 The body of the cover letter shall include:

14.1.5.1 The dates covered by the Status Report

14.1.5.2 Manhour and dollar expenditures for the period being reported

14.1.5.3 The Status Report number of the task

14.1.5.4 A list of any enclosures and/or attachments used to help explain the Report

14.1.5.5 A Point of Contact

14.1.6 Distribution shall include:

14.1.6.1 The COR

14.1.6.2 The customer Code

14.1.6.3 Other pertinent persons (Made known at time of award)

14.1.7 The Status Report shall include:

14.1.7.1 \*Date the Status Report was created

14.1.7.2 \*Heading

14.1.7.3 \* Project Title



- 14.1.7.4 \* Project/Task number
- 14.1.7.5 \*Task Status
- 14.1.7.6 \* Travel Information (Include name of traveler, Period of Travel, and Reason)
- 14.1.7.7 \* Manhour information (Include Labor Category, Hours expended for the period, and the cumulative
- 14.1.7.8 \* Percentage of Completion To-Date
- 14.1.7.9 \* Percentage of Funded Amount Spent To-Date
- 14.1.7.10 \* Funded Amount/Total estimated Cost
- 14.1.7.11 \* Funds Expended To-Date
- 14.1.7.12 \* Scheduled Completion Date
- 14.1.7.13 \* Estimated Completion Date
- 14.1.7.14 \* Actual Delivery Date
- 14.1.7.15 \* Summary of Schedule Adherence
- 14.1.7.16 \* Remarks

#### NON-DISCLOSURE AND NON-USE OF DATA AGREEMENT/CERTIFICATION

##### (a) Sensitive and /or Proprietary Information and/or Data

In the course of performing this contract, contractor personnel may obtain certain sensitive, non-public information and or/data. Such information may be provided by the Navy for the purposes of contract performance. Other such information may be obtained (indirectly or informally) in the course of working in close proximity to Government personnel in the Government workplace. Sensitive, non-public information includes, without limitation, information relating to the Navy's research, development, products, trade secrets, know-how, contingency plans, budgeting, customers, finances, procurements (including, but not limited to source selection information), pre-deliverable information, personnel, personally identifiable information, and any other related information without regard for whether such information and/or data would otherwise be deemed secret or routine. Sensitive, non-public information can also include proprietary third information including but not limited to the research development, products, trade secrets, and know-how of other contractors. All such information and /or data shall be deemed to be "sensitive and/or Proprietary, whether or not designated or marked.

##### (b) Non-Disclosure of Information and/or Data

The Contractor and its personnel and subcontractors shall disclose sensitive and/or proprietary and/or data, received, or learned as a result of performance of this contract only to contractor personnel directly performing under this contract and to United States Department of Defense personnel to whom disclosure of such sensitive and/or proprietary information and/or data is required in performance of this contract The

Contractor and its personnel and subcontractors shall not disclose such data or information to anyone who prepares offers, proposals, bids, and/or quotations for Government and/or non Government procurements.

The Contractor and its personnel and subcontractors shall take all steps necessary to prevent disclosure of such sensitive and/or proprietary information and/or data except as specifically permitted herein.

(c) Non-Use of Information and/or Data

The Contractor and its personnel and subcontractors shall use sensitive and/or proprietary and/or data obtained, received, or learned as a result of performance of this contract, whether in paper or electronic format or received orally, only in direct performance of its contract and for no other purpose. The Contractor and its personnel and subcontractors shall not use or consider such data or information in the preparation of any offer, proposal, bid, and/or quotation for any Government and/or non Government procurement. The

Contractor and its personnel and subcontractors shall take all steps necessary to prevent use of such data or information except as specifically permitted herein. Contractor employees shall not disclose such information and/or data to persons other than United States Department of Defense personnel and to other contractor personnel on a need –to-know basis for performance of the contract, except as otherwise approved by the

Contracting Officer in writing and unless required by court order or applicable law, or unless necessary to conduct a judicial or administrative inquiry.

(d) Non-Disclosure/Non-Use Agreements

(1) Before any of the Contractor's personnel or the personnel of any tier subcontractor becomes involved in performance of this contract, the Contractor shall obtain a non-disclosure/non-use agreement signed by that person. The non-disclosure/non-use agreement shall state that:

(A) He/she shall disclose sensitive and/or proprietary information and/or obtained, received, or learned by him/her as a result of performance of this contract only to Contractor personnel directly performing under this contract and to United States Department of Defense personnel to whom disclosure of such data or information is required in performance of this contract.

(B) He/she shall not disclose sensitive and/or proprietary information obtained, received, or learned as a result of performance of this contract to anyone who prepares offers, proposals, bids, and/or quotations for Government and/or non Government procurements.

(C) He/she shall use sensitive and/or proprietary information obtained, received, or learned as a result of performance of this contract only in direct performance of this contract and for no other purpose.

(D) He/she shall not use sensitive and/or proprietary and/or data information obtained, received, or learned as a result of performance of this contract in the preparation of any offer, proposal, bid, and/or quotation for any Government and/or non Government procurement.

In the event its personnel, and or subcontractors will obtain, receive, or learn data or sensitive and/or proprietary information and/or of other entities as a result of performance of this contract, the Contractor shall execute a non-disclosure/non-use agreement with each such entity prior to having access to sensitive and/or proprietary information and/or provided by the entity.

(e) Requirement to Disclose Data/Information

If the Contractor, its personnel and/or is subcontractors receive a court order requiring disclosure of information and/or data obtained, received, or learned as a result of performance of this contract or if the Contractor believes disclosure of such information and/or data is otherwise required by law or regulation, the Contractor shall contact the Contracting Officer immediately and fully inform the Contracting Officer of the court order or other requirement prior to any disclosure of information and/or data.

(f) Exception

This "Non-Disclosure and Non-Use of Data/Information" provision does not apply to data or information which the Contractor can demonstrate was obtained, received, or learned in a way other than as a result of performance of this contract.

(g) Government Remedy

Any violation of the terms of this "Non-Disclosure and Non-Use of Data/Information and/or" provision is a material and substantial breach of this contract and the Government may, in addition to any other remedy available, terminate this contract, or any part thereof, for cause or default. Noncompliance with the "Non-Disclosure and Non-Use of Data/Information" provision may also adversely affect the evaluation of a Contractor's reliability in future acquisitions.

(h) Non-disclosure/Non-Use Agreements

The contractor shall maintain all Non-Disclosure and Non-Use of Data/Information agreements required by this provision and shall make such agreements available for immediate inspection by the Contracting Officer or Contracting Officer Representative.

(j) Disposal of Documents

Upon completion of the task assigned or termination of the contract, or upon demand, whichever is earliest, the contractor shall return any and all documents containing sensitive and/or proprietary information and /or data (including any copies or reproductions hereof) in its possession or control.

## 252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (MAY 2013)

(a) Definitions. As used in this clause--

Department of Defense Activity Address Code (DoDAAC) is a six position code that uniquely identifies a unit, activity, or organization.

Document type means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

Local processing office (LPO) is the office responsible for payment certification when payment certification is done external to the entitlement system.

(b) Electronic invoicing. The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) WAWF access. To access WAWF, the Contractor shall--

(1) Have a designated electronic business point of contact in the System for Award Management at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this Web site.

(d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at <https://wawf.eb.mil/>.

(e) WAWF methods of document submission. Document submissions may be via Web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) WAWF payment instructions. The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order: N39040-17-C-0002

(1) Document type. The Contractor shall use the following document type(s).

Combo

(2) Inspection/acceptance location. The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.

N/A

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

## CLINS 0001 - 0007 ONLY Routing Data Table\*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	HQ0338
Issue By DoDAAC	N39040
Admin DoDAAC	N39040
Inspect By DoDAAC	N39040
Ship To Code	N39040
Ship From Code	_____
Mark For Code	_____
Service Approver (DoDAAC)	N39040
Service Acceptor (DoDAAC)	N39040
Accept at Other DoDAAC	_____
LPO DoDAAC	N39040
DCAA Auditor DoDAAC	_____
Other DoDAAC(s)	_____

## CLIN 0008 ONLY Routing Data Table\*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	HQ0338
Issue By DoDAAC	N39040
Admin DoDAAC	N39040
Inspect By DoDAAC	N39040
Ship To Code	N39040
Ship From Code	_____
Mark For Code	_____
Service Approver (DoDAAC)	N00024
Service Acceptor (DoDAAC)	N00024
Accept at Other DoDAAC	_____
LPO DoDAAC	N39040
DCAA Auditor DoDAAC	_____
Other DoDAAC(s)	_____

(4) Payment request and supporting documentation. The Contractor shall ensure a payment request includes appropriate contract line item and subline item descriptions of the work performed or supplies delivered, unit price/cost per unit, fee (if applicable), and all relevant back-up documentation, as defined in DFARS Appendix F, (e.g. timesheets) in support of each payment request.

(5) WAWF email notifications. The Contractor shall enter the email address identified below in the "Send Additional Email Notifications" field of WAWF once a document is submitted in the system.

██████████

(g) WAWF point of contact. (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

WAWFHQ@navy mil

(2) For technical WAWF help, contact the WAWF helpdesk at 866-618-5988.

(End of clause)

252.232-7007 LIMITATION OF GOVERNMENT'S OBLIGATION (APR 2014)

(a) Contract line item(s) [REDACTED] is/are incrementally funded. For this/these item(s), the sum of [REDACTED] of the total price is presently available for payment and allotted to this contract. An allotment schedule is set forth in paragraph (j) of this clause.

(b) For items(s) identified in paragraph (a) of this clause, the Contractor agrees to perform up to the point at which the total amount payable by the Government, including reimbursement in the event of termination of those item(s) for the Government's convenience, approximates the total amount currently allotted to the contract. The Contractor is not authorized to continue work on those item(s) beyond that point. The Government will not be obligated in any event to reimburse the Contractor in excess of the amount allotted to the contract for those item(s) regardless of anything to the contrary in the clause entitled "TERMINATION FOR THE CONVENIENCE OF THE GOVERNMENT." As used in this clause, the total amount payable by the Government in the event of termination of applicable contract line item(s) for convenience includes costs, profit and estimated termination settlement costs for those item(s).

(c) Notwithstanding the dates specified in the allotment schedule in paragraph (j) of this clause, the Contractor will notify the Contracting Officer in writing at least ninety days prior to the date when, in the Contractor's best judgment, the work will reach the point at which the total amount payable by the Government, including any cost for termination for convenience, will approximate 85 percent of the total amount then allotted to the contract for performance of the applicable item(s). The notification will state (1) the estimated date when that point will be reached and (2) an estimate of additional funding, if any, needed to continue performance of applicable line items up to the next scheduled date for allotment of funds identified in paragraph (j) of this clause, or to a mutually agreed upon substitute date. The notification will also advise the Contracting Officer of the estimated amount of additional funds that will be required for the timely performance of the item(s) funded pursuant to this clause, for subsequent period as may be specified in the allotment schedule in paragraph (j) of this clause, or otherwise agreed to by the parties. If after such notification additional funds are not allotted by the date identified in the Contractor's notification, or by an agreed substitute date, the Contracting Officer will terminate any item(s) for which additional funds have not been allotted, pursuant to the clause of this contract entitled "TERMINATION FOR THE CONVENIENCE OF THE GOVERNMENT".

(d) When additional funds are allotted for continued performance of the contract line item(s) identified in paragraph (a) of this clause, the parties will agree as to the period of contract performance which will be covered by the funds. The provisions of paragraph (b) through (d) of this clause will apply in like manner to the additional allotted funds and agreed substitute date, and the contract will be modified accordingly.

(e) If, solely by reason of failure of the Government to allot additional funds, by the dates indicated below, in amounts sufficient for timely performance of the contract line item(s) identified in paragraph (a) of this clause, the Contractor incurs additional costs or is delayed in the performance of the work under this contract and if additional funds are allotted, an equitable adjustment will be made in the price or prices (including appropriate target, billing, and ceiling prices where applicable) of the item(s), or in the time of delivery, or both. Failure to agree to any such equitable adjustment hereunder will be a dispute concerning a question of fact within the meaning of the clause entitled "disputes."

(f) The Government may at any time prior to termination allot additional funds for the performance of the contract line item(s) identified in paragraph (a) of this clause.

(g) The termination provisions of this clause do not limit the rights of the Government under the clause entitled "DEFAULT." The provisions of this clause are limited to work and allotment of funds for the contract line item(s) set forth in paragraph (a) of this clause. This clause no longer applies once the contract is fully funded except with regard to the rights or obligations of the parties concerning equitable adjustments negotiated under paragraphs (d) or (e) of this clause.

(h) Nothing in this clause affects the right of the Government to this contract pursuant to the clause of this contract entitled "TERMINATION FOR CONVENIENCE OF THE GOVERNMENT."

(i) Nothing in this clause shall be construed as authorization of voluntary services whose acceptance is otherwise prohibited under 31 U.S.C. 1342.

(j) The parties contemplate that the Government will allot funds to this contract in accordance with the following schedule:

On execution of contract \$--\$1,198,430.20

As of October 26, 2016 - \$335,628.98

As of January 13th, 2016 --\$1,213,786.02

This contract has been fully funded as of modification P00002.

(End of clause)

(End of Summary of Changes)