

FTI SEAPORTE TEAM – DEPTH AND BREADTH NARRATIVE

**FUNCTIONAL AREA 3.1**

***Research and Development Support***

<b>Company:</b> Network and Simulation Technologies Inc. (Woman-owned SB))	<b>Contract Number:</b> N65236-03-D-6830
<b>Warfare Center Supported:</b> SPAWAR, Detachment Newport (Naval War College)	<b>Contract Name:</b> <i>Research and Analysis, Systems Engineering for Research, Systems Integration and Technology Services</i>

**Technical Synopsis (Functional Area 3.1):**

Netsimco tasking includes program and project management responsibilities, supervision and coordination of technical and research activities involving SPAWAR Systems Center, Charleston, SC Detachment Newport. This tasking involves direct support for the Research efforts of the Naval War College, Center for Naval Warfare Studies/ War Gaming Department. Supported events include war games, exercises, and extensive research and analysis efforts. The effort requires strong technical background and education, and the ability to interact effectively with senior military officers and DOD civilians. Tasking also requires technical and analytical support of military models and simulations.

<b>Company:</b> Advanced Technology and Research Corporation (SB)	<b>Contract Number:</b> N00167-99-D0015
<b>Warfare Center Supported:</b> NSWC - Carderock	<b>Contract Name:</b> <i>Engineering, Technical and Analytical Support Services</i>

**Technical Synopsis (Functional Area 3.1):**

Under this Delivery Order, ATR provided senior electrochemical engineering service support for the design, development, and testing of new lead-acid battery types and assistance in rendering operational a new government battery testing laboratory. ATR provided expert advice and recommendations on technical capability, technology-to-production maturity, and comparative option analysis

<b>Company:</b> Scientific Systems Company, Inc. (Small Disadvantaged Business)	<b>Contract Number:</b> N0014-99-C-0323 thru N0014-99-0428
<b>Warfare Center Supported:</b> Office of Naval Research	<b>Contract Name:</b> <i>Intelligent Autonomy for Unmanned Combat Air Vehicles</i>

**Technical Synopsis (Functional Area 3.1):**

SSCI, under the sponsorship of the Office of Naval Research, lead a project to develop an Autonomous Intelligent Controller (AI-Controller) for multiple Unmanned Airborne Vehicles (UAVs). The AI-Controller featured real-time mission replanning in the presence of pop-up threats; cooperative flying; geolocation of enemy targets; vision-augmentation target geolocation, vehicle guidance, and mosaicing; and passive vision- augmented autonomous landing on a moving deck. SSCI also developed the Automatic Target Recognition Subsystem for visible, IR and radar imaging for both moving and stationary targets. The new technologies

are in super-resolution, Eigentemplate matching, Bayesian Pattern Theory and Finite Set Statistics.

**FUNCTIONAL AREA 3.2**

***Engineering, System Engineering and Process Engineering Support***

<b>Company:</b> Andraka Consulting Group, Inc (SB)	<b>Contract Number:</b> N66604-03-M-3022
<b>Warfare Center Supported:</b> NUWC DIVNPT	<b>Contract Name:</b> <i>Matched Field Processor Development, and Improvement</i>

**Technical Synopsis (Functional Area 3.2):**

Andraka Consulting is performing a specific task to design and develop a Sonar Matched Field Processor using an off the shelf FPGA board in support of advanced SONAR research. Design work includes modifying the beamforming and voxel interpolation algorithms for an optimal hardware fit and designing and developing the FPGA for 160 MHz processing.

<b>Company:</b> Paratech, Inc. (Veteran-owned SB)	<b>Contract Number:</b> N00178-00-C-2001
<b>Warfare Center Supported:</b> NSWCDD	<b>Contract Name:</b> <i>Aegis Computer Center Operations Support</i>

**Technical Synopsis (Functional Area 3.2):**

Paratech, under subcontract to Future Technologies, Inc., provides engineering and operational analysis to evaluate Aegis Combat System equipment and change proposals for system impact to Aegis tactical and simulation support systems. Engineering analysis efforts principally focus on multi-platform, site, and service interoperability, and facility management, operations, and maintenance. Analyses and recommendations are provided to the Aegis Computer Center (ACC) Technical Director as white papers, point papers, and planning papers, which are used in developing ACC policies and support plans. Technical and project management contributions and presentations are provided at IPRs, CDRs, SDRs, and technical working group meetings at the direction of the ACC Technical Director.

<b>Company:</b> Basic Engineering Concepts and Technologies (Woman-owned SB)	<b>Contract Number:</b> N00178-01-C-1017
<b>Warfare Center Supported:</b> NSWCDD	<b>Contract Name:</b> <i>AEGIS Ballistic Missile Defense R&amp;D</i>

**Technical Synopsis (Functional Area 3.2):**

BecTech provides telemetry receiving system technical support to the Navy Tactical Ballistic Missile Defense (TBMD) efforts. This effort primarily supports the SM-3 ALI Program, but also includes efforts supporting the SM-2 BLK IVA Program where there is overlap between the two. The incumbent serves as an advisor to NSWCDD’s TBMD telemetry program, insuring shipboard telemetry requirements are defined, commented and are met in support of T&E tests.

**FUNCTIONAL AREA 3.3**

*Modeling, Simulation, Stimulation, and Analysis Support*

<b>Company:</b> Network and Simulation Technologies Inc. (Woman-owned SB)	<b>Contract Number:</b> N65236-03-D-6830
<b>Warfare Center Supported:</b> SPAWAR, Detachment Newport (Naval War College)	<b>Contract Name:</b> <i>Research and Analysis, Systems Engineering for Research, Systems Integration and Technology Services</i>

**Technical Synopsis (Functional Area 3.3):**

Under this task, Netsimco provides modeling and simulation technical support, and systems integration services. Efforts include the installation, test, operation and maintenance of C4I systems, decision support systems, and models and simulations as required by SPAWAR Systems Center, Charleston, SC Detachment Newport, RI. Netsimco personnel provide training and technical assistance to military and civilian personnel using systems such as the Naval Simulation System (NSS), Enhanced Naval War Gaming System (ENWGS), Satellite Tool Kit (STK), and Joint Warfare Simulation (JWARS). Netsimco personnel also coordinate the technical integration of models and simulations that are brought in from other organizations to support SPAWAR events. This tasking includes physical, network and logical/data integration.

<b>Company:</b> Advanced Technology and Research Corporation (SB)	<b>Contract Number:</b> N00167-99-D0015
<b>Warfare Center Supported:</b> NSWC – Indian Head	<b>Contract Name:</b> <i>Engineering, Technical and Analytical Support Services</i>

**Technical Synopsis (Functional Area 3.3):**

This series of Delivery Orders in support of NSWC Indian Head are for analysis in the Mine Countermeasure, bomb effects, and underwater warhead design areas. ATR engineers used complex coupled finite elements hydrocodes such as DSYMAS and CTH. ATR is one of the very few private organizations authorized to use the DSYMAS code, to analyze the effects of targets, typically various foreign mines or anti-landing obstacles, when subjected to near-by explosions from a bomb or similar type warhead. ATR models showed the displacement and deformation expected, and hence, the probable lethality of the warhead. ATR is routinely tasked to perform these analyses in support of NSWD Indian Head projects.

**FUNCTIONAL AREA 3.4**

*Prototyping, Pre-Production, Model-Making, and Fabrication Support*

<b>Company:</b> Huestis Machine Corporation (SB)	<b>Contract Number:</b> N66604-04-C-0535
<b>Warfare Center Supported:</b> NUWCDIVNPT	<b>Contract Name:</b> <i>BB-Y Adapter Assembly, Connector Body and Spare Parts</i>

**Technical Synopsis (Functional Area 3.4):**

Huestis Machine fabricated, assembled, tested and inspected the BB-Y Connector Assemblies and BB-Y Connector Bodies (including spare parts) in response to a requirement for fabrication

of a breech door connector (BB-Y Adapter) used to provide a link between the TOMAHAWK Test Missile, submarine Combat Control System, and the MK 75 Digital Missile Simulator. Assemblies were initially designed and developed by the Missiles/Precision Strike Division, of the Missile Launcher & Payload Integration Department, NUWCDIVNPT. Huestis Machine performed First Article Test/Inspection, serialization, government level packaging and shipping.

<b>Company:</b> Northrop Grumman (LB)	<b>Contract Number:</b> N00178-96-C-3012
<b>Warfare Center Supported:</b> NSWCDD	<b>Contract Name:</b> <i>TARTAR MK 74 MFCS/ RADAR Data Processor Engineering &amp; Support Services</i>

**Technical Synopsis (Functional Area 3.4):**

Northrop Grumman provided analysis of the design and integration of Commercial Off-the-Shelf (COTS) equipment's into the CCL interface hardware. DMS CSS Services developed EICDs for both VME based and PC104 based COTS embedded computers for use within the CCL system. Northrop Grumman provided detailed circuit card design information for the development and production of the CCL interface devices used in the test and evaluation of the CCL and MHLS concept. Complete engineering drawings, parts lists, parts specifications, schematic drawings, circuit card layout drawings, and Gerber photo layout files were provided for SM-2 to CCL VME, SM-2 to CCL PC-104, ESSM to CCL, and MHLS to MK 46 & MK 50 designs.

**FUNCTIONAL AREA 3.5**

*System Design Documentation and Technical Data Support*

<b>Company:</b> Future Technologies, Inc. (SDB 8a)	<b>Contract Number:</b> N00178-00-C-2001
<b>Warfare Center Supported:</b> NSWCDD	<b>Contract Name:</b> <i>Aegis Computer Center Operations Support</i>

**Technical Synopsis (Functional Area 3.5):**

FTI develops technical documentation in support of all areas of the ACC, such as the Aegis Media Libraries, Delivery Staging, and Engineering. FTI technical writers research, develop, write, produce, update, and maintain the ACC's user guides, operational procedures, engineering publications, miscellaneous publications, and program management publications. Documentation for the ACC is prepared per the standards outlined in the ACC Publication Guide, as well as the Navy Correspondence Manual and the Government Printing Office Style Manual.

<b>Company:</b> Northrop Grumman (LB)	<b>Contract Number:</b> N66604-02-D-1118
<b>Warfare Center Supported:</b> NUWCDIVNPT	<b>Contract Name:</b> <i>SIM/STIM</i>

**Technical Synopsis (Functional Area 3.5):**

Northrop Grumman provides full-scale requirements and design documentation, extensive software development support per the software development plan and CMM guidelines, and manages the software development environment per established plans and procedures. Northrop

Grumman develops and delivers all levels of system documentation including System Specifications through detailed design specifications, all in compliance with DoD guidelines and Capability Maturity Model (CMM) practices. These practices include a strict adherence to quality standards, including tracking and logging error density in documentation along with configuration control of documents. Northrop Grumman also develops the Submarine Multi-Mission Team Trainer Interactive Electronic Technical Manual (IETM), a web-enabled, state-of-the-art document for the maintenance of submarine training systems.

**FUNCTIONAL AREA 3.6**

**Software Engineering, Development, Programming, and Network Support**

<b>Company:</b> Future Technologies, Inc. (SDB 8a)	<b>Contract Number:</b> GS-23F-9841H
<b>Warfare Center Supported:</b> AFDIL	<b>Contract Name:</b> <i>DNA 2000 Laboratory Information Management System Development</i>

**Technical Synopsis (Functional Area 3.6):**

FTI provides database services for the Armed Forces DNA Identification Laboratory (AFDIL) that deal with digitization of standard procedures and functions used within the AFDIL scientific environment. The Laboratory Information Management System (LIMS) software was developed for the purpose of automating the manual analysis of specimens received and processed at AFDIL. With manual methods and single-user applications currently used by the client, these projects are geared to address the inherent problems in the areas of operational consistency, correctness, speed of processing, adherence to SOP, user-friendliness and output quality. Specific tasks include: requirements review and documentation; system design, development, testing, and documentation; database administration; database design, development, testing/validation, configuration management, and training.

<b>Company:</b> Gemini Industries Inc. (Woman-owned SB)	<b>Contract Number:</b> BPA# F19628-02-A-0035, DO# F19628-02-F-8166 and 8024
<b>Warfare Center Supported:</b> Non-Navy	<b>Contract Name:</b> <i>Information Technology Services Program (ITSP)</i>

**Technical Synopsis (Functional Area 3.6):**

Gemini provides support to Air Force Materiel Command (AFMC) Electronic System Center (ESC). In that role, Gemini provides the Command, Control, Communications and Computers (C4) Enterprise Integration (EI) Program Office (CX) with IT and computer resource support to ensure that CX information systems and related resources, including the C2 Enterprise Integration Facility (CEIF), provide information in both a timely and reliable manner, while minimizing cost of collection. In this role Gemini is responsible for: movement, maintenance and monitoring of the Technical Interoperability Network (TIN); maintenance and upkeep of the Secured Internet Protocol Network (SIPRNET); developing and administer COMSEC procedures in the Command and Control Enterprise Integration Facility. Gemini performs cost comparisons on enterprise level hardware and software products; collaborate on the development of the Portal Page and associated policies and procedures, and support the design of reports to

provide management with critical performance criteria on IDE programs. Gemini developed and implemented up-to-date suspense tracking and Human Resource data systems.

<b>Company:</b> Coastal Design, LLC (SB)	<b>Contract Number:</b> Subcontract to Columbia Research Corporation
<b>Warfare Center Supported:</b> Non-Navy	<b>Contract Name:</b> <i>Swimmer Delivery Vehicle Design and Fabrication</i>

**Technical Synopsis (Functional Area 3.6):**

Coastal Design performed hardware, software, and integration. Coastal Design selected off-the-shelf or designed hardware to control the propulsion and SDV sensor inputs. System computers were selected and used to provide information to the operator. Software was designed to integrate all sensor and navigational data. Using a Doppler Velocity Log or backup sensors, positioning software was designed to update SDV position underwater. This position was used to navigate manually by the operator, or under autopilot control. Obstacle avoidance sonar was integrated to aid in navigation. Custom hardware designs were used to integrate sensors and other off-the-shelf systems. A software simulator was developed to facilitate system level testing out of the water.

**FUNCTIONAL AREA 3.7**

***Reliability, Maintainability, and Availability Support***

<b>Company:</b> American Systems Corporation (LB)	<b>Contract Number:</b> N00406-99-D-5209
<b>Warfare Center Supported:</b> NUWC DIVNPT	<b>Contract Name:</b> <i>Acoustic Engineering Support</i>

**Technical Synopsis (Functional Area 3.7):**

As a subcontractor to ManTech Int’l. Corp. for this effort, ASC has developed changes to increase life span of MS Workstation based on reliability and obsolescence of items,. This includes replacement of the Fast-Wide SCSI bus and hard drives, addition of a CD R/W, and introduction of installed ports for auxiliary sensors and interfaces. ASC has generated revisions to related Planned Maintenance System (PMS) Maintenance Requirement Card (MRC) and Maintenance Standard (MS) procedures in order to increase streamline maintenance and increase reliability by better and earlier detection of problems.

<b>Company:</b> National Technologies Associates (SB)	<b>Contract Number:</b> N00174-00-D-0006
<b>Warfare Center Supported:</b> NAVSEA	<b>Contract Name:</b> <i>Weapons Training Support Program (Omnibus)</i>

**Technical Synopsis (Functional Area 3.7):**

NTA provided qualified engineering and logistic personnel in support of various programs including, but not limited to; item reliability and maintainability; failure mode and effects; criticality and maintainability; operation and maintenance; Life-Cost Cycle Analysis; personnel and support requirements; support equipment and training material; facilities; skill evaluation

and justification; support items; and cross functional requirements for the Refueling Stores Program. NTA established and conducted Supportability Analysis Records (SAR) using MIL-PRF-49506 as guidance, documented the results, and performed other specific tasks. The SRA was the single, analytical effort that interfaced with the systems engineering process to identify logistics support requirements at all levels of maintenance. NTA updated the Level of Repair Analysis (LORA) and conducted and documented LORA using MIL-HDBK-502 and MIL-STD-1390D as guidance.

**FUNCTIONAL AREA 3.8**

***Human Factors Engineering Support***

<b>Company:</b> General Physics (LB)	<b>Contract Number:</b> N66604-02-D-120B
<b>Warfare Center Supported:</b> NUWC DIVNPT	<b>Contract Name:</b> <i>Periscope and Photonic Electro-Optic / Electromagnetic Systems Support</i>

**Technical Synopsis (Functional Area 3.8):**

GP supported the Type 8 Mod 3 with IR program support for the human engineering design data. This data provided the requirements that applied to human-operated support equipment such as test sets and maintenance equipment and in general, all manned equipment items procured for testing of the periscope. This also included control and indicator panel arrangements under the control of NUWC Code 3492. In addition, it was to ensure the Infrared Subsystem design reflected human engineering considerations necessary to enhance the mission effectiveness of the equipment within reasonable constraints on personnel skill and training, and added that the equipment design minimized personnel performance errors, injury and fatigue.

**FUNCTIONAL AREA 3.9**

***System Safety Engineering Support***

<b>Company:</b> Lockheed-Martin (LB)	<b>Contract Number:</b> N00024-00-C-5135
<b>Warfare Center Supported:</b> PEO IWS (ACSC)	<b>Contract Name:</b> <i>Engineering and Management Support Services</i>

**Technical Synopsis (Functional Area 3.9):**

Lockheed-Martin provides vital technology and management support for the research, activation, operations, maintenance, and engineering of equipment, systems, and computer programs in support of all PEO IWS missions supported by SCSC. [Combat systems for destroyers, cruisers, carriers, and amphibians. This technology contract also provides for the installation, activation, and upgrade of current and future cruiser, destroyer, carrier, amphibious, and ship modernization initiatives at the Navy Wallops Island, Virginia, facility. Lockheed Martin provides program management, systems engineering, safety and operations support services.

**FUNCTIONAL AREA 3.10**

***Configuration Management Support***

<b>Company:</b> CACI (LB)	<b>Contract Number:</b> N66604-99-D-4005
<b>Warfare Center Supported:</b> NUWCDIVNPT	<b>Contract Name:</b> <i>ILS and CM Support Services</i>

**Technical Synopsis (Functional Area 3.10):**

Over the past 10 years, CACI has provided Configuration Management services for NUWCDIVNPT Code 34, associated with Engineering Change Document (ECD) for improvements to each configuration item (CI) throughout its life cycle. Primary services consist of configuration identification, change control, configuration status accounting, and configuration audit. For Configuration Identification: CACI identifies the baseline functional and physical characteristics for all submarine electromagnetic and electro-optical systems and related equipment, including unique form, fit, function, and interchangeability. Within the area of Configuration Control: we are tracking and documenting the status of all ECDs related to the functional, allocated, and product baselines; including those brought about by changes in mission requirements, advances in technology, or the impacts of cost and scheduling. For Configuration Status Accounting: support, we are updating and controlling changes to the Configuration Identification Data Management System (CIDMS), which is managed using Microsoft Windows and is maintained by the NUWCDIVNPT Code 22 Advanced Interactive Management Technology Center (AIMTC). In the area of Configuration Audit CACI provides for resolution coordination of Functional Configuration Audit (FCA) and Physical Configuration Audit (PCA) discrepancies, and verify FCA/PCA issues are incorporated into CI documentation prior to CSA processing.

<b>Company:</b> L-3 Communications (LB)	<b>Contract Number:</b> N00024-99-C-2201
<b>Warfare Center Supported:</b> NAVSEA	<b>Contract Name:</b> <i>LPD Shipbuilding Program</i>

**Technical Synopsis (Functional Area 3.10):**

L-3 TMA provided a full range of logistics support to NAVSEA, developed and maintains the ILSP and Configuration Management (CM) Plan, and maintains the ILS portion of other program documentation. L-3 TMA has been instrumental in facilitating and managing the LPD 17 Change Control Process, the CM Working Group meetings, and Design Reviews. L-3 TMA reviews Engineering Changes and Waiver Request for applicability and impact, and recommends approval. L-3 TMA ensures that controlled ship product data operates within technical specifications, engineering models, and material purchasing technical specifications. Supported ILS TOC requirements, preparing responses on performance based logistics requirements and life cycle cost issues.



**FUNCTIONAL AREA 3.11**

*Quality Assurance Support*

<b>Company:</b> Northrop Grumman (LB)	<b>Contract Number:</b> N00178-97-C-2002
<b>Warfare Center Supported:</b> NSWCDD	<b>Contract Name:</b> <i>Aegis Test and Evaluation Support Services</i>

**Technical Synopsis (Functional Area 3.11):**

For 25 years Northrop Grumman has provided NSWC Dahlgren with technical and engineering support related to the T&E of the Aegis Combat System and the Aegis Weapon System including IV&V, documentation development and maintenance, in-service engineering, and QA support on the Aegis computer programs before deployment to the fleet. We have provided training support to the Aegis Program Office for more than 15 years. We comprehend both the Navy requirements for development and delivery of curricula and the evolving training methodologies brought by technology and tight budgets. We provide program support services to the Aegis Program Office. We provide information assurance, information technology, and documentation support related to DoD Information Technology Security Certification and Accreditation Process. Our Data Link engineering support is a key element in achieving interoperability among weapon, combat, warfare and C4ISR systems

**FUNCTIONAL AREA 3.12**

*Information System Development, Information Assurance, and Information Technology Support*

<b>Company:</b> Future Technologies, Inc. (SDB 8a)	<b>Contract Number:</b> N00178-01-C-1001
<b>Warfare Center Supported:</b> NSWCDD	<b>Contract Name:</b> <i>Submarine Launched Ballistic Missile Computing Environment Support</i>

**Technical Synopsis (Functional Area 3.12):**

FTI provides system analysis, system administration, and system operation and maintenance. Provides systems analysis support to all of the processors, servers, workstations, PCs, peripheral equipment, and the computer operating systems that comprise the SCE, including system user assistance implementing a three-tier help desk support structure. System administration tasks include managing user accounts, system privileges, and databases, and managing electronic mail accounts. We provide system level security for client computers attached to the LAN, and addresses security issues such as virus awareness and detection, virus eradication, intrusion detection, and disaster recovery, and in identifying preventative measures for these events. System data is monitored and performance is measured against metric guidelines. FTI provides system operation tasks that include system and equipment startup, system inspections, system operations, routine equipment preventive maintenance, equipment shutdown, and interfacing with the user community as Level 1 help desk technicians.

**FUNCTIONAL AREA 3.13**

***Ship Inactivation and Disposal Support***

<b>Company:</b> General Physics (LB)	<b>Contract Number:</b> N66604-01-R-0211
<b>Warfare Center Supported:</b> NUWC DIVNPT	<b>Contract Name:</b> <i>Material Inventory, Supportability Analysis and Supply Mgmt Support Services</i>

**Technical Synopsis (Functional Area 3.13):**

GP provided direct support for the disposition and disposal of excess and obsolete Heavyweight Torpedo Program material. GP assisted NUWC DIVNPT during the demilitarization process for MLIs, TSCs, RFIs, and nonRFIs, both classified and unclassified by preparing paper work and coordinating efforts with local government disposal and DRMS. GP performed demilitarization, packaging, and disposal tasks and assisted NUWC DIVNPT insuring that material was safeguarded and destroyed in accordance with Navy instructions and directives.

**FUNCTIONAL AREA 3.14**

***Interoperability, Test and Evaluation, Trials Support***

<b>Company:</b> Marine Acoustics, Inc. (Veteran-owned SB)	<b>Contract Number:</b> N00024-03-D-6606
<b>Warfare Center Supported:</b> SPAWAR	<b>Contract Name:</b> <i>SURTASS Improvement Program</i>

**Technical Synopsis (Functional Area 3.14):**

MAI, under subcontract to North Carolina State University, provides engineering and technical services in support of the SURTASS LFA Sea Test Program. This includes development of test plan objectives by supplying scientific and technical direction related to dockside and at-sea shipboard and off-board testing relative to the SURTASS LFA sonar and its related systems, subsystems, plans, and procedures.

<b>Company:</b> BAE Systems (LB)	<b>Contract Number:</b> N00178-03-C-2003
<b>Warfare Center Supported:</b> NSW CDD	<b>Contract Name:</b> <i>Tomahawk Software Engineering</i>

**Technical Synopsis (Functional Area 3.14):**

Under contracts N00178-98-C-2025, N00178-99-C-2003, and N00178-03-C-2003, BAE Systems performs engineering and technical support services to all current and future versions of the Tomahawk Weapon Control System (TWCS), both Track Control Group (TCG) and Launch Control Group (LCG) elements; the Advanced Tomahawk Weapon Control Systems (ATWCS), and the Tactical Tomahawk Weapon Control System (TTWCS) (both the US and FMS configurations). An integral part of this effort is BAE Systems' Test and Evaluation (T&E) support that has included the establishment of test approaches, the development of test specifications, the plan and conduct of test operations, the analyses of collected test data and test coverage, and the conduct of special tests for system safety.

<b>Company:</b> Basic Engineering Concepts and Technologies (Woman-owned SB)	<b>Contract Number:</b> N00178-01-C-1017
<b>Warfare Center Supported:</b> NSWCDD	<b>Contract Name:</b> <i>AEGIS Ballistic Missile Defense R&amp;D</i>

**Technical Synopsis (Functional Area 3.14):**

BecTech provides telemetry receiving system technical support to the Navy Tactical Ballistic Missile Defense (TBMD) efforts. This effort primarily supports the SM-3 ALI Program, but also includes efforts supporting the SM-2 BLK IVA Program where there is overlap between the two. BecTech serves as an advisor to NSWCDD’s TBMD telemetry program, insuring shipboard telemetry requirements are defined, commented and met in support of T&E tests.

**FUNCTIONAL AREA 3.15**

***Measurement Facilities, Range, and Instrumentation Support***

<b>Company:</b> Future Technologies, Inc. (SDB 8a)	<b>Contract Number:</b> N66604-03-C-0357
<b>Warfare Center Supported:</b> NUWCDIVNPT	<b>Contract Name:</b> <i>Calibration and Repair Services</i>

**Technical Synopsis (Functional Area 3.15):**

FTI provides calibration support services to organizations within NUWCDIVNPT and its detachments. Tasks include conducting acceptance tests on all newly purchased equipment to determine compliance with the manufacturer’s specification and shall determine if the instrument shall be accepted or rejected, calibrate all instruments at the site specified in accordance with the appropriate METCAL calibration procedures located in the calibration procedure library, and perform repairs to instruments that during some stage of the calibration process are found to have defects.

**FUNCTIONAL AREA 3.16**

***Acquisition Logistics Support***

<b>Company:</b> Future Technologies, Inc. (SDB 8a)	<b>Contract Number:</b> N66604-02-D-0128
<b>Warfare Center Supported:</b> NUWCDIVNPT	<b>Contract Name:</b> <i>Acquisition and Fleet Supportability Services</i>

**Technical Synopsis (Functional Area 3.16):**

FTI provided Acquisition and Fleet Logistics Supportability services for the purpose of performing process improvement initiatives for NUWCDIVNPT Code 31 in the area of AN/SQQ-89 Basic and future AN/SQQ-89 ASW Combat Systems.

<b>Company:</b> National Technologies Associates (SB)	<b>Contract Number:</b> N00174-00-A-0003
<b>Warfare Center Supported:</b> NAVSEA	<b>Contract Name:</b> <i>NAVSEA IH Engineering Services GSA BPA</i>

**Technical Synopsis (Functional Area 3.16):**

NTA provided Manpower, Personnel and Training (MPT) analysis, analysis of change packages, and analysis and evaluation of Tactical Training Ranges Program Logistics Planning and functional support. This included providing recommendations for developing a comprehensive Acquisition Logistics Support Plan, recommendations for developing and modifying alternative Integrated Logistics Support (ILS) Strategies and identifying the most effective plan to ensure the accomplishment of program objectives, review of the hardware and attendant Acquisition Logistics Support (ALS) data requirements specified in weapons systems documents, including Contract Data Requirements Lists (CDRLs) and Data Item Descriptions (DIDs). NTA also provided recommendations concerning which data deliverables would be required to support the hardware acquisitions, and conducted on-site quantitative and quality analyses of the logistics elements for new hardware at selected test and evaluation sites, training sites, and operational sites ashore and afloat. NTA also provided recommendations for the development of Life Cycle Cost (LCC) and Total Ownership Cost (TOC) Management, Logistic-Cost-Readiness-Supportability analysis, and Configuration Management in support of the program.

**FUNCTIONAL AREA 3.17**

***Supply and Provisioning Support***

<b>Company:</b> ProcureNet, Inc. (LB)	<b>Contract Number:</b> N00140-92-R-F021
<b>Warfare Center Supported:</b> NAVSEA	<b>Contract Name:</b> <i>Navy Ship Transfer Program</i>

**Technical Synopsis (Functional Area 3.17):**

For the NAVSEA Navy Ship Transfer program, ProcureNet is the BAV (Division of VSE Corp.) team’s material manager/integrated supplier. This contract requires performance of the following tasks: source and purchase material from over 3,500 OEMs and distributors; manage inventory, including all government inventory for these ships; receive and inspect material; and facilitate transportation and delivery (including packaging, labeling and bar-coding). A series of U.S. Navy Weapon Systems databases are generated for all material on each class of ship covered by the Ship Transfer program and are transferred electronically to ProcureNet’s business systems. We utilize this technical information to source all procurements. With the high rate of obsolete equipment, we are continually developing new sources to manufacture obsolete repair parts.

**FUNCTIONAL AREA 3.18**

***Training Support***

<b>Company:</b> Integrated Management Solutions (SB)	<b>Contract Number:</b> N66604-03-C-2043
<b>Warfare Center Supported:</b> NUWCDIVNPT	<b>Contract Name:</b> <i>Demilitarization Training</i>

**Technical Synopsis (Functional Area 3.18):**

IMS facilitated the curriculum development for the Defense Demilitarization and Trade Security Controls Program Course developed by NUWCDIVNPT. Part of this process was the development of the process flows for all class material, this include the Trade Security Controls Process, Demil Plan Review Process and the Demil Coding Process. IMS has supported the development of Demil strategies, practices and processes to effectively develop programs and comply with Demilitarization and Disposal policy mandated in the DoD manuals and standards. IMS provided services to research and analyze available Demilitarization and Disposal documentation and recommend updates to current training manuals; conduct training courses and provide course feedback, recommendations and improvements.

<b>Company:</b> Northrop Grumman (LB)	<b>Contract Number:</b> N00178-97-D-2002
<b>Warfare Center Supported:</b> NSWCD	<b>Contract Name:</b> <i>Aegis Test and Evaluation Support Services</i>

**Technical Synopsis (Functional Area 3.18):**

For 25 years Northrop Grumman has provided NSWC Dahlgren with technical and engineering support related to the T&E of the Aegis Combat System and the Aegis Weapon System including IV&V, documentation development and maintenance, in-service engineering, and QA support on the Aegis computer programs before deployment to the fleet. We have provided training support to the Aegis Program Office for more than 15 years. We comprehend both the Navy requirements for development and delivery of curricula and the evolving training methodologies brought by technology and tight budgets. We provide program support services to the Aegis Program Office. We provide information assurance, information technology, and documentation support related to DoD Information Technology Security Certification and Accreditation Process. Our Data Link engineering support is a key element in achieving interoperability among weapon, combat, warfare and C4ISR systems

**FUNCTIONAL AREA 3.19**

***In-service Engineering, Fleet Introduction, Installation and Checkout Support***

<b>Company:</b> American Systems Corporation (LB)	<b>Contract Number:</b> N00406-99-D-5209
<b>Warfare Center Supported:</b> NUWCDIVNPT	<b>Contract Name:</b> <i>Acoustic Engineering Support</i>

**Technical Synopsis (Functional Area 3.19):**

As a subcontractor to ManTech Int’l. Corp. for this effort, ASC has performed ISEA functions in support of the TRIDENT MS PARM since the deployment of MS. ASC performs special case engineering studies to resolve problems identified by the fleet and through the Common Problem

Reporting (CPR) system. We have developed and presented system technical material for the Fleet attended CPR Conferences sponsored by NUWCDIVNPT, reviewed and provided resolutions to fleet submitted PMS Technical Feedback Reports (TFBRs), responded to Fleet/NSWC DET operational and acoustic issues in support of MS patrol, refit, and training operations, TCMOD installations, and planned EOH/ERP evolutions. ASC has provided both hardware and software acoustic and noise vibration monitoring training to crew members and TRF/TTF personnel. ASC has provided MS PARM support at various design, planning, evaluation, and review meetings and forums.

<b>Company:</b> CACI (LB)	<b>Contract Number:</b> N00178-03-D-3074
<b>Warfare Center Supported:</b> NSWCDD	<b>Contract Name:</b> <i>Engineering and Technical Support Services for SLBM</i>

**Technical Synopsis (Functional Area 3.19):**

Over the past 19 years CACI has provided In-Service Engineering support to NAVSEA, NSWC Dahlgren, and NAVSEA PEOs, on Surface Ship Command and Control Systems (AEGIS, ACDS, SSDS, CEC, and SGS/AC) and Strategic Systems (SLBM). As a subcontractor to EG&G on this effort, CACI analyzes and assesses critical issues affecting these systems, and assesses RM&A and safety data and requirements. CACI evaluates ECPs, RFWs, and RFDs for their impact on the combat system operators and maintainers, coordinates engineering services for corrective action beyond Fleet skill and resource capability as well as installation of alterations and changes. CACI performs support with a workforce of 25 Engineers and Analysts that have over 633 combined years of experience. CACI supports NSWC Dahlgren on the SGS/AC program by maintaining system documentation, reviewing ECPs, ECs, and FCs, supporting delivery of software updates, assisting shipboard operators and providing Fleet OJT.

**FUNCTIONAL AREA 3.20**

***Program Support***

<b>Company:</b> Future Technologies, Inc. (SDB 8a)	<b>Contract Number:</b> N66604-02-D-221D (D.O. 0001)
<b>Warfare Center Supported:</b> NUWCDIVNPT	<b>Contract Name:</b> <i>Management Support Services</i>

**Technical Synopsis (Functional Area 3.20):**

FTI provides services in support of the NUWCDIVNPT, Submarine Electromagnetic Systems Department, Code 34. The services support the Periscope Program, the periscope repair facility, associated manufacturing processes, production practices and control processes and other Code 34 periscope related projects. Tasks include: schedule development, schedule maintenance and tracking, planning support, program coordination, schedule assessment, data collection, resource allocation planning, and cost and manpower requirements definition.

<b>Company:</b> Future Technologies, Inc. (SDB 8a)	<b>Contract Number:</b> N00178-00-C-2001
<b>Warfare Center Supported:</b> NSWCCD	<b>Contract Name:</b> <i>Aegis Computer Center Operations Support</i>

**Technical Synopsis (Functional Area 3.20):**

FTI analyzes, evaluates and provides recommendations for the planning, development, monitoring and execution of procurement documentation and field activity performance. FTI provides engineering and operational analyses to evaluate equipment and equipment upgrades proposed for procurement to accomplish the ACC mission requirements. Analyses and recommendations are provided to the ACC customer as white papers, point papers, and planning papers that are used by ACC management in developing ACC policies and support plans. These recommendations include an assessment of cost, schedule, and performance impact. Engineers attend and participate in In-Process Reviews (IPRs), Critical Design Reviews (CDRs), System Design Reviews (SDRs) and technical working group meetings and briefings. They prepare program briefs and present technical and programmatic information relative to ACC management position, policy, and plans. In addition, FTI analyzes and evaluates program briefs, reports and correspondence from other members of the Aegis technical community.

<b>Company:</b> Network and Simulation Technologies Inc. (Woman-owned SB))	<b>Contract Number:</b> N65236-03-D-6830
<b>Warfare Center Supported:</b> SPAWAR, Detachment Newport (Naval War College)	<b>Contract Name:</b> Research and Analysis, Systems Engineering for Research, Systems Integration and Technology Services

**Technical Synopsis (Functional Area 3.20):**

This task involves support for SPAWAR counter terrorism, Homeland Security, and civil preparedness. Effort is focused on the design and execution of strategic planning events. Netsimco personnel are responsible for coordinating technical, operational and administrative requirements for these events. Event sponsors include: NY Fire Department, NYPD, New York City's Office of Emergency Management, Department of Homeland Security (Federal Emergency Management Agency and Transportation Security Administration), as well as many others. This tasking requires direct coordination with organizations including: Federal State and Local governments, Office of Homeland Security, Department of Justice, Federal Bureau of Investigation, Defense Threat Reduction Agency, Rhode Island Emergency Management Office, and Northern Command.

**FUNCTIONAL AREA 3.21**

***Administrative Support***

<b>Company:</b> Future Technologies, Inc. (SDB 8a)	<b>Contract Number:</b> N66604-02-D-2281
<b>Warfare Center Supported:</b> NUWCDIVNPT	<b>Contract Name:</b> <i>Administrative and Clerical Services to Support Admin. Work Centers</i>

**Technical Synopsis (Functional Area 3.21):**

FTI provides the personnel, supervision, and management necessary to accomplish administrative and clerical functions through the operation of Administrative Work Centers (AWCs) for various NUWCDIVNPT Codes. This support involves multiple full time FTI administrative support professionals working on site at NUWCDIVNPT.

<b>Company:</b> Future Technologies, Inc. (SDB 8a)	<b>Contract Number:</b> N00178-00-C-2001
<b>Warfare Center Supported:</b> NSWCD	<b>Contract Name:</b> <i>Aegis Computer Center Operations Support</i>

**Technical Synopsis (Functional Area 3.21):**

FTI provides personnel and computer media access control support, computer media library management support, delivery staging support, shred operations support, courier support, technical writing, and system engineering and program support services to the Aegis Computer Center (ACC) at NSWC Dahlgren Division. Access Control personnel provide first level security for the ACC facility, controlling physical access to the ACC, Building 1500, Building 1470, and Building 180. Aegis Media Library (AML) staff are responsible for numerous configuration management tasks in two separate libraries. Delivery Staging operations staff receives and processes incoming computer programs and other media from ships in the Aegis fleet and from Aegis land-based sites. FTI’s Courier transports computer media and documentation from the ACC to other on-site NSWCD locations, and to and from offsite locations at Wallops Island, VA, Norfolk, VA, and Moorestown, NJ. FTI performs shredding and bagging operations of unclassified and classified material for the ACC, Building 1500, Building 180, and the contractors associated with these facilities.