

Functional Area 10 - Configuration Management (CM)

PSI Contract N62306-02-D-B004: PSI established the Naval Oceanographic Office (NAVOCEANO) Configuration Management Office (CMO) and has provided technical and administrative support to the CMO for the past ten years. The CMO provides the common configuration management procedures and support needed to ensure a high degree of configuration identification, status accounting, change control, and auditing for all NAVOCEANO Information Systems. As the CMO contractor, PSI's staff members are responsible for providing the technical and administrative support needed to maintain an efficient and viable CMO to ensure that sound configuration management practices are implemented, accurate records are maintained, and non-conforming software is controlled. PSI also provides continued maintenance of established baselines and technical and administrative support to the Information Technology configuration management structure, the various Configuration Management Boards (CMBs), and supporting technical working groups. In addition, PSI's work includes development of automated procedures that ensure CMO users will have timely access to Configuration Management information. PSI also provides support to NAVOCEANO technical working groups by performing the administrative functions associated with configuration management meetings, including the preparation and distribution of standardized agendas, minutes, and materials. Part of this work includes assisting with the preparation of Change Requests, Change Notices, Problem Reports, and support documentation. PSI staff members track all CM issues, including identification, change control, status accounting, and auditing. Also, members of the CMO make recommendations to upgrade and maintain the CM program, including specification development for acquisitions and implementation of new and/or automated tools and procedures, in order to effectively serve as the central repository for all software, documentation, and configuration management records associated with NAVOCEANO Information Systems. In addition, PSI maintains documentation on CMO user procedures, office operating procedures and associated forms, and the routine requests and functions of the CMO.

PSI Contract DATM07-02-C-0036: This BAA contract with the YUMA Proving Grounds is in support of a Joint Army/Air Force R&D initiative to develop and deploy a precision aerial delivery system (PADS) that would be operationally suitable for use in high altitude (>25 Kft) aerial delivery operations. PSI designed, built and tested a deployable drop sonde to measure winds in real time, assimilated the real time data with predictive data, then used the merged data with a trajectory model for ballistic parachutes to provide a launch point for the operational personnel. This project has demonstrated the capability to reduce the inaccuracy of landing high altitude delivered loads from greater than 2 km to less than 400m. All documentation developed for this effort has been electronically captured and is under a strict configuration management control process in keeping with the process and procedures of CMMI Level 3. Ten systems are presently under development for delivery to the Air Mobility Command (AMC) for deployment to the active operational forces.

PSI Contract FAO254574: This National Justice Institute grant is for the production and deployment of a gun fire detection and localization system into the District of Columbia area in order to assist law enforcement personnel with rapidly detecting and localizing handgun use activity in urban crime areas. All sensors, transceivers, base station and related software and documentation are under strict configuration management control in keeping with the processes and procedures of CMMI Level 3.

AAC Contract N66604-01-C-4218: AAC is performing a \$29M Phase III SBIR task for the Submarine Acoustic Intercept Improvement Program using Sparsely Populated Volumetric Arrays (SPVAs). This program is a "light-bulb replacement" approach for the aging AN/WLR-9 outboard sensor domes. NAVSEA PMS-415 is the sponsor and NUWC Newport is the technical agent. As part of this program, AAC put into place a strict configuration management control plan for the documentation that defines the functional, performance, and physical characteristics of the system developed under the Submarine Acoustic Intercept Improvement Program. The processes and procedures used to manage this documentation were in keeping with CMMI Level 3.

AAC Contract N00178-98-C-2011: The Surface Network Embedded Analysis Tactical Trainer (SNEATT) system is employed at the aircraft carrier CV-TSC. As with all such deployed systems, documentation of the system, change control, and configuration tracking is vital to keeping the system maintainable and the results verifiable. As part of SNEATT design and development, AAC implemented a configuration management process to track the design, system changes, and system configurations. This process was used to track the configuration for the initial delivery of the six SNEATT systems under this contract as well as to track functionality improvements performed under follow-on tasking.

Additional Contracts:

NTI Contract N00167-01-D-0016, Contact B. Bowers, 301-227-1410

CTI Contract DTTS50-00-D-00918, Contact Al Pemberton, 202-366-1197