

Jacobs' Team Experience – SEA CORP

SEA CORP Multi-Contract Overview

Since its formation as a company, SEA CORP has focused its systems engineering skills on Navy Combat Systems, especially aboard submarines. SEA CORP has been closely and continuously involved in the full spectrum of development and improvement programs on the CCS Mk 1, CCS Mk 2 (through Block 1C), AN/BSY-1, AN/BSY-2, AN/BQQ-5, AN/BQQ-6, AN/BQG-5, C3IS, and the Acoustic Rapid COTS Insertion (ARCI) program. In the past five years, in particular, they have expanded their expertise and presence in the area of weapons and launcher systems as well as Towed Systems, both in research and development and in the support of existing systems.

SEA CORP's long-standing and broad-based support of submarine combat systems programs through existing and completed service contracts at NUWC has resulted in a deep experience pool in support of programs including SEAWOLF NPES, Virginia C3IS, AN/BSY-2 and Towed Systems, as well as a broad spectrum of legacy systems. Half of their technical and engineering personnel and a majority of the Company's overall contractual efforts with NUWC, are involved in the various tasks associated with the testing and evaluation process. These efforts encompass the complete T&E and IV&V processes from the establishment of procedures through planning, execution, analysis, and documentation. SEA CORP also currently provides system engineering support services for the SSN 688, 688I, 21, 774 and SSBN/SSGN 726-Class submarines. Key areas of current support include the design of the Virginia Weapon Launch System, development of ARCI specifications, assessment and development of TOMAHAWK interface specification for upgrades to equipment, and interoperability performance. SEA CORP has detailed expertise in the design, performance, operation, and interrelationships of these systems at all levels.

They have performed design engineering tasks for SEAWOLF NPES, Virginia C3IS, AN/BSY-2 and Towed Systems in various capacities. They assisted in development of the system segment specification (Integrated Development Program Common Specification) for the NSSN/ARCI Sonar subsystem in the areas of Physical Characteristics, Environmental Conditions, Power, External Interfaces, and Design and Construction. They produced technical text and illustrations to completely and accurately specify the system requirements. SEA CORP has developed, built, and tested prototype systems for various projects including the Virginia Class Local Conductivity, Temperature and Depth (LCTD) sensor, the Improved Submarine Launched Mobile Mine (ISLMM) Portable Weapon Launch System (PWLS), TB-29 Towed Array Recorder/Playback System, TB-23 VME interface cards, Towed Array Receiver Controller, Towed Array Receiver Simulator, reference hydrophone amplifier, TB-16B Towed Array A/D converter, the Modular Surface Vessel Torpedo Tube (MSVTT), and the Modular Countermeasure Set Acoustic (MCSA) pressure-balanced launcher.