

DMSMS Team Achievement Award

NATO Sea Sparrow Missile Systems / Target Acquisition System DMSMS Team



The NATO Sea Sparrow Missile Systems (NSSMS)/Target Acquisition System (TAS) DMSMS Program Management Team at Naval Surface Warfare Center, Port Hueneme Division (NSWC PHD) incorporated a systems engineering approach into their program which broadened the team's expertise far beyond standard DMSMS practices. The team's approach led to implementation of numerous unique practices and procedures that have allowed for high cost savings and avoidance, while improving combat system readiness not only in the U.S. but throughout the NATO Consortium Nations.

The NSSMS DMSMS management program supports systems which range from modern to legacy, dating as far back as 1982. The legacy systems are far beyond projected service life, giving rise to a multitude of DMSMS issues. Declining stock on hand, loss of procurement sources, and outdated technology presented a trifecta of readiness and affordability concerns. Rapidly diminishing resources to support the aging system, and the ability to support the fleet, was increasingly difficult and costly when the program was initially created. The establishment of the program enabled the In-Service Engineering Agent (ISEA) to continue to provide first class support to NSSMS systems.

The involvement and contributions of the team members have created an extraordinarily successful DMSMS management program. . Additionally, the team continues to share their vast knowledge with other programs to assist in the improvement of the DMSMS Management process throughout the U.S. Navy and also within DoD and Industry. These efforts have resulted in improved system readiness, improved system affordability, and have enhanced system capabilities throughout the fleet.

To date, during FY18 the NSSMS/TAS DMSMS team has resolved more than 260 DMSMS issues. The teams' contributions and involvement have provided the NSSMS program and the U.S. Navy over \$11M in cost avoidance and savings. Additionally, the schedule for two

upcoming ship builds was accelerated in no small part due to the efforts, collaboration, and resolutions of the team.

The NSSMS/TAS DMSMS team's outstanding reputation and unwavering dedication to fleet support and organizational efficiencies piloted a partnership between NSSMS Depot, NSSMS Logistics, and the NATO SeaSparrow Program Office (NSPO). This collaborative effort resulted in the creation of a new process to build and test System Launcher Controllers (SLCs) and Integrated Radar Processors (IRPs) at the Navy's Yorktown, VA facility. This collaboration effort reflects a Culture of Affordability by saving approximately \$2.28 Million dollars for three upcoming ship builds. The new direction allows NSWC PHD to have total control over product quality and delivery timeliness and this unparalleled team effort led to a total program cost savings of \$4.94M.

Systems Engineering Approach: An example of the Systems Engineering Approach in action is the resolution for the Deck Control Unit in the NSSMS. The support contractor was unable to build these units for NAVSUP to support fleet requirements due to problems with the TDP. The DMSMS team reviewed the Engineering Change Proposal (ECP) archives and drawing repositories and identified mistakes and missing information on the revised drawings from FY11. As a follow up, they set up a meeting with NAVSUP, Engineering department, Supply Support SME, government depot, and support contractor to provide research and a recommended solution. Full concurrence was given by all parties for the recommended solution. This diligence enabled the support contractor to build to the appropriate guidance and an ECP was written to include the changes and updates for the identified deficiencies with the TDP. This approach enabled the team to avoid a redesign for the Deck Control Unit, greatly improving operational availability and providing substantial cost savings to the Program.

The team invested a great deal of time and effort into the development of their international program. The team worked tirelessly to multiple sources. The use of unique strategies and unwavering persistence to obtain information, documents and data from multiple sources have led a robust international DMSMS management program. Suggestions made by the team led the international ISEA to proactively reach out to his customers in order to ascertain readiness for the first time in the programs nearly 40-year history. The team's focus on enhancement of their international program led to the discovery of a large cache of excess material required by the U.S. fleet. The team was able to obtain more than 125 assets at no cost, which ensured not only fleet support, but also created a cost avoidance of over \$450,000. This collaborative solution came about due to the team's in-depth knowledge of system commonality not only within the United States but with international fleets including Canada, Greece, and Germany.