

Surface Electronic Warfare Improvement Program (SEWIP)

Executive Summary

- The Surface Electronic Warfare Improvement Program (SEWIP) Block 1A operational assessment was conducted in early FY05. Effectiveness thresholds were achieved. Reliability and maintainability areas were targeted for improvement. This first increment demonstrated significantly enhanced AN/SLQ-32 capability.
- Operational evaluation occurred September–November 2005. Results are pending.

System

The SEWIP includes incremental developments to replace obsolete computing equipment, improve human-machine integration, and enhance the electronic warfare capability of the AN/SLQ-32 equipment.

- First increment (Block 1A) consists of an improved operator console and replacement of obsolete digital processors and tracking modules.
- Second increment (Block 1B) consists of modifications to improve system response time, situational awareness, and crew training.

Mission

U.S. Navy surface ships will use SEWIP to enhance their AN/SLQ-32 electronic warfare system anti-ship missile defense,



counter-targeting, counter-surveillance, and electronic data collection capabilities.

Activity

- Operational assessment of the SEWIP Block 1A was conducted January 11-15, 2005, at the Navy land-based test site in Crane, Indiana.
 - Testing included operationally representative activities and scenarios using representative Navy enlisted operators.
 - Pulse density, hardware/software reliability, and hardware maintainability tests were emphasized.
- The SEWIP Block 1A OPEVAL was conducted August and November 2005 with USS *Ramage* (DDG 61) in the Virginia Capes Operating Area.
- All testing was conducted in accordance with DOT&E-approved test plans.

Assessment

- All threshold values were achieved during the operational assessment with the exception of mean time between software failures and mean time to repair for hardware maintenance.
- The operational assessment demonstrated the capability of the SEWIP Block 1A to significantly improve the effectiveness of the AN/SLQ-32.
- OPEVAL results are pending.

Recommendation

1. Update the Capability Development Document and Test and Evaluation Master Plan to reflect the SEWIP Block 1B program.

NAVY PROGRAMS