AIRBORNE MINE NEUTRALIZATION SYSTEM

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The Airborne Mine Neutralization System (AMNS) is a mine countermeasure system that provides rapid neutralization of mines at sea. Though originally deployed from a MH-53E or MH-60S helicopter, the system is being modified to deploy from remotely operated surface boats and other unmanned vessels.

AMNS provides an organic mine countermeasure capability for aircraft carriers, large amphibious ships, and the Littoral Combat Ship. It is used to relocate, identify, and neutralize bottom and moored sea mines to support operations in littoral zones, confined straits, and navigational choke points.

When a suspected mine is identified, the aircraft operates at a safe distance from the target position and lowers an expendable, self-propelled neutralizer into the water. The neutralizer is either operator driven or travels autonomously to the reported target position and searches for the mine. A fiber-optic cable relays information between the operator in the helicopter and the neutralizer. Once the operator relocates the target and identifies it as a mine, the expendable neutralizer is placed in position and detonated to disable the mine.

Teledyne’s Role

- Provide engineering and manufacturing resources required to procure, fabricate, test, and deliver the AMNS Deployment Subassembly (DSA), cruciform, fairings, cover, and other ancillary hardware
- Identify areas where producibility and efficiency could be improved
- Develop manufacturing plans, processes, and procedures
- Performed engineering and manufacturing analysis of the Low-Rate Initial Production (LRIP) technical data package
- Developed inspection tools, test equipment, and test procedures
- Verified mechanical and electrical manufacturing and testing