



Raytheon systems excel in first test of Ford-class integrated combat system

February 5, 2019

CVN 78 Ship Self Defense System ICS on pace for operational testing

TEWKSBURY, Mass., Feb. 5, 2019 /PRNewswire/ -- Raytheon Company (NYSE: RTN) and the U.S. Navy have successfully completed the first-ever, live fire test of the latest generation of the [Ship Self Defense System or SSDS](#), Integrated Combat System on the Self Defense Test Ship. The test, conducted for USS Gerald R. Ford (CVN 78), the first of the Navy's newest class of aircraft carriers, successfully engaged an unmanned aerial vehicle target off the coast of California.



The CVN 78 SSDS Integrated Combat System incorporates several elements including Raytheon's:

- **Dual Band Radar:** This technology searched for, located and tracked the target. DBR then provided radar illumination to the Evolved SeaSparrow Missile to support missile guidance.
- **Cooperative Engagement Capability, or CEC:** The capability validated and processed the Dual Band Radar data for SSDS. CEC is responsible for providing a single, integrated air picture, fusing data from multiple sensors to improve track accuracy.
- **Ship Self Defense System:** SSDS processed the CEC data, determined the appropriate engagement ranges, passed launch commands to the missile, and scheduled Dual Band Radar support for the engagement.
- **Evolved SeaSparrow Missile:** The interceptor successfully engaged and defeated the target.
- **Rolling Airframe Missile:** The RAM interceptor was successfully scheduled by SSDS, but not required, since the target was destroyed by the ESSM.

"The design of our Ship Self Defense System enabled seamless integration of the sensors and missiles with the CVN 78 combat system during this first-of-its-kind test, proving the ability of the system to defend our sailors," said Mike Fabel, Raytheon's SSDS program manager. "This integrated combat system success brings Ford [herself] one step closer to operational testing and deployment."

Further integrated combat system live fire events will take place during subsequent developmental and operational testing planned for 2019.

Background on SSDS

Proven and deployed, SSDS is an open, distributed combat management system in service on US carriers and amphibious ships, including CVN, LSD, LPD, LHA and LHD classes. SSDS MK 2 is the premier self-defense system for the U.S. Navy. SSDS is integrated with Raytheon's Cooperative Engagement Capability for the seamless extraction and distribution of sensor-derived information. This further enhances each ship's anti-air warfare capability through sharing of available data to all participating CEC units, improving situational awareness, increasing range, and enabling cooperative, multiple, or layered engagement strategies.

About Raytheon

Raytheon Company, with 2018 sales of \$27 billion and 67,000 employees, is a technology and innovation leader specializing in defense, civil government and cybersecurity solutions. With a history of innovation spanning 97 years, Raytheon provides state-of-the-art electronics, mission systems integration, C5I™ products and services, sensing, effects, and mission support for customers in more than 80 countries. [Raytheon](#) is headquartered in Waltham, Mass. Follow us on [Twitter](#).

www.raytheon.com

Media Contact

Ian Davis
+1.978-284-9579
idspr@raytheon.com

View original content to download multimedia: <http://www.prnewswire.com/news-releases/raytheon-systems-excel-in-first-test-of-ford-class-integrated-combat-system-300787032.html>

SOURCE Raytheon Company