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Airbus Defense and Space, Inc. continues providing TRS-4D active electronically scanned array (AESA) radars to the Freedom Variant Littoral Combat Ship (LCS).

Programmable TRS-4D naval radars support improved LCS lethality, self-defense and situation awareness with upgraded capabilities.

Ulm/Germany, HERNDON/Va. - Airbus Defense and Space, Inc. is under contract with its affiliate, Airbus DS Electronics and Border Security GmbH, to provide TRS-4D naval radars for the U.S. Navy's Littoral Combat Ship (LCS) program through Freedom-variant LCS prime contractor, Lockheed Martin. A factory acceptance test was recently completed for the radar planned to go aboard LCS 21. This follows the already planned installations of TRS-4D aboard LCS 17 and LCS 19.

The TRS-4D radar for LCS is a rotating version of the Active Electronically Scanned Array (AESA) fixed panel TRS-4D radar currently going aboard the German F-125 class frigates. It combines mechanical and electronic azimuth scanning to achieve fast generation of target tracks. Airbus Defense and Space radars have been aboard LCS since the program's inception, with the TRS-4D's predecessor, the AN/SPS-75 radar, going aboard each Freedom Variant LCS from LCS 1 through LCS 15.

System characteristics of the TRS-4D are an excellent match for the environment faced by LCS and its evolution to a frigate. The radar's AESA technology delivers increased sensitivity to detect smaller targets with greater accuracy, as well as faster track generation to give LCS more time to react to advanced threats and support enhanced weapons systems.

This software-defined radar is programmable, enabling the customer to define changes to radar characteristics to match future threats that evolve over the life of the ship. The ability to customize the characteristics of the TRS-4D helps enable LCS to evolve through its service life and adapt to evolving required operational capabilities and projected operational environments in an affordable manner.

"The TRS-4D radar, with the superior performance of AESA technology, supports the LCS evolution to a frigate, meets current and future threats, and can readily be adapted to change over the service life of the ship," said Mike Cosentino, President of Airbus Defense and Space, Inc.

Combining multiple capabilities within a single radar is one way that TRS-4D contributes to the affordability of LCS. Employing state of the art AESA technology, the TRS-4D is a three-dimensional, multi-mode naval radar for surveillance, target acquisition, self-defense, gunfire support, and aircraft control. It automatically detects and tracks all types of air and sea targets, alleviating crew workload requirements. LCS affordability is

further enhanced by the reliability of the TRS-4D's solid state system design, keeping maintenance costs low and further contributing to lower LCS life cycle costs.

Littoral combat ships are fast, agile surface combatants optimized for operating in the highly trafficked near-shore regions of the world. Through its innovative modular design, LCS can be reconfigured for surface warfare, anti-submarine warfare, and mine countermeasures in the near term, and adapt its capabilities for changing threats and scenarios that will occur over its service life.

For the LCS program, Airbus Defense and Space Inc. has delivered all eight AN/SPS-75 radars on time and within budget and maintains this high standard for the TRS-4D, delivering all three TRS-4D radars on time and within budget.

To learn more about the TRS-4D multi-mode naval radar system, visit us at the 2017 Surface Navy Association's National Symposium in Arlington, Virginia (10-12 January 2017) and check our online information at <http://northamerica.airbus-group.com/north-america/usa/Airbus-Defense-and-Space/TRS-4D/Overview.html>

About Airbus Defense and Space, Inc.

Airbus Defense and Space, Inc., headquartered in Herndon, Va., offers a broad array of advanced solutions to meet U.S. military and commercial requirements, including fixed- and rotary-wing aircraft, homeland security systems, public safety communications, defense electronics and avionics, and threat detection systems. Airbus Defense and Space, Inc. is a division of Airbus Group, Inc., the U.S.-based operation of Airbus Group, a global leader in aeronautics, space and related services.

About Airbus Group, Inc.

Airbus Group, Inc. is the U.S.-based operation of Airbus Group, a global leader in aeronautics, space and related services. Airbus Group contributes more than \$14.4 billion to the U.S. economy annually and supports over 245,000 American jobs through its network of suppliers.

About Airbus DS Electronics and Border Security (EBS)

EBS is the new sensor house, a leading global provider of premium electronics in the areas of protection, reconnaissance and surveillance. The enterprise equips armed forces and security organisations around the world on the basis of a 100-year tradition and experience gained from renowned technological predecessors such as Dasa, Aérospatiale-Matra, Telefunken, Dornier and Zeiss. EBS employs some 4,000 employees generating revenues of approximately €1 billion per year.

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