The U.S. Special Operations Command has awarded Raytheon a $135.4 million contract to develop a new tactical radar for rotary and fixed-wing aircraft.

The system design and development contract calls for Raytheon to build, test and integrate the new Silent Knight radar. The system will serve as a common multi-mode terrain following/terrain avoidance radar for a variety of platforms including the MH-47G helicopter, the lead aircraft for the program. The cost plus incentive fee contract, potentially valued at more than $164 million, contains an option for six low rate initial production units.

“This win continues Raytheon’s leadership in the tactical radar marketplace,” said Mike Proch, vice president, Raytheon Precision, Attack and Surveillance Systems. “For our special operations forces customer, that means the expertise and experience to provide a low-risk, high-performance radar that meets its demanding mission requirements.”

The Silent Knight radar will allow airborne forces safe low-level flight and safe ingress and egress in adverse environments. The system will also provide navigation support, ground mapping and weather information to air crews. The new radar will include advances in terrain following and avoidance capabilities and will be lighter and require less power than predecessors. As a common system, Silent Knight eventually will be fielded on MH-60M, MC-130H, and CV-22 block 30 aircraft.

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Pakistan chooses Raytheon’s proven air defense missiles to secure borders

Pakistan has signed a Letter of Offer and Acceptance for the procurement of 500 Advanced Medium-Range Air-to-Air Missiles (AMRAAM) generating the largest single international AMRAAM purchase and 200 AIM-9M Sidewinder missiles. This is also the first AMRAAM missile procurement between Raytheon and Pakistan. Delivery of the AMRAAM missiles will start in 2008 and continue through 2011. The combined $284 million procurement augments Pakistan’s established inventory and will provide the bulk of the air-to-air fire power of the Pakistan Air Force. AMRAAM is a joint U.S. Air Force and Navy program and sets the global beyond-visual-range standard.

“This is the largest single purchase of AMRAAM missiles in the history of the AMRAAM international program,” said Brock McCorman, vice president of Raytheon’s Air-to-Air product line. “The combat-proven ‘one-two punch’ of Raytheon’s AMRAAM/Sidewinder technology will give the Pakistan Air Force the necessary firepower to accomplish vital air defense missions.”

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Raytheon seeks technology partnerships in India

Raytheon highlighted its technology solutions that integrate advanced sensor and weapon systems for multi-role fighter aircraft at the inaugural Air Dominance Conference in India. Retired U.S. Navy Admiral Walter F. Doran, president of Raytheon Asia, said a long-term partnership approach in India, with private and public-sector companies, would be preferable to a buyer-seller relationship.

“This conference affirms Raytheon’s continued commitment to be a trusted partner as India modernizes its armed forces and expands its defense industrial base,” Doran said. “Raytheon’s strong relationship with India spans more than 60 years and includes work with the Indian space research organization and the Airports Authority of India.” Raytheon’s advanced systems currently equip many leading fighter platforms, including the F/A-18, F-15, F-16, F-22 and F-35 (the Joint Strike Fighter). A critical element of the company’s integrated air dominance approach for India is Raytheon’s family of active electronically scanned array (AESA) radars. Other key factors are advanced targeting systems, sensor-to-weapon interoperability, integrated electronic warfare capability, and a variety of electro-optical/infrared and laser systems. This approach to provide a fully-integrated fighter system enhances the effectiveness of the air crew in air-to-air and air-to-ground missions. Fighter aircraft equipped with fully-integrated systems allow aviators to support non-traditional intelligence, surveillance and reconnaissance and cruise missile defense missions more effectively.

“Our broad range of technologies and products positions Raytheon favorably to support India’s long-term plans for updating its defense capabilities,” said Wes Motooka, vice president for international business development at Raytheon Space and Airborne Systems. “We have the expertise to provide integrated technology solutions that combine our advanced sensor and weapons systems, enhancing our customer’s operational capabilities.

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Customer confidence gained by Raytheon Australia naval patrol boat team

Raytheon Australia’s naval patrol boat in-service support team has received praise from the Royal Australian Navy. Lt. Cmdr. Ken Ferguson expressed confidence in the Raytheon Australia-led team delivering in-service support for the Royal Australian Navy’s Fremantle Class Patrol Boat (FCPB) fleet.

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Javelin Joint Venture Earns Logistics Award for Supporting the Warfighter

For its timely and proficient support of the warfighter in the field, the Javelin Joint Venture Logistics Support Team has received the Defense Logistics Award for Contractor-Military Collaboration of the year from the U.S. Defense Logistics Agency. Steve Barnoske, director for Tactical Missiles at Lockheed Martin Missiles and Fire Control, accepted the award during the 3rd Annual Defense Logistics awards ceremony in Washington, D.C.

“The Javelin Joint Venture Logistics Support Team executed more than 60 repairs in support of Operation Enduring Freedom and Operation Iraqi Freedom with an average turn-around time of just 18 days from the fighting position to the contractor depot and back to the warfighter,” said Duane Gooden, president, Javelin Joint Venture. “We are providing a Mission Support effort that is as sophisticated and reliable as the weapons we put into the hands of the warfighter. This award is a target hit for this team.”

“This award represents a focused team effort between government and industry,” said Howard Weaver, Javelin Joint Venture vice president. “The team established and managed a 24-hour-a-day, seven-days-a-week Information Technical Operations Center that communicates and supports soldiers deployed worldwide.”

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Javelin Block 1 Missile Achieves Success in Test Firings

The Raytheon-Lockheed Martin Javelin Joint Venture achieved success in qualification flight tests of the Block 1 Javelin missile at Redstone Arsenal, in Huntsville, Ala.

“With its light weight and two-component design, the Javelin is a tactically superior system that enables the soldier to take the weapon forward into the fight where it is needed,” said Duane Gooden, president, Javelin Joint Venture. “The Block 1 configuration of the Javelin missile enables our soldiers to bring the system’s unprecedented advantage to the forefront against a wider range of targets and missions.

“Javelin is the world’s most versatile, lethal, man-portable medium-range close combat and anti-armor weapon system,” said Howard Weaver, Javelin Joint Venture vice president. “Javelin is optimized for close combat and has been successfully employed to not only defeat armor targets, but also other vehicles and urban targets. Proven in combat in the global war on terrorism, Javelin is the weapon of choice for rapid reaction, special operations, and light and mechanized infantry forces.”

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U.S. Army and Raytheon Complete Negotiations on $1.4 Billion Contract for JLENS Development

Raytheon recently completed negotiations with the U.S. Army for a contract modification for system development and demonstration of the Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS).

“JLENS is critical to the Army’s system-of-systems approach to cruise missile defense, utilizing a network of sensors in support of a wide variety of weapons to provide over-the-horizon threat detection and engagement,” said Rick Yuse, vice president of Raytheon Integrated Air Defense.

JLENS is managed by U.S. Army Product Manager Lt. Col. Jeffrey K. Souder as part of the Cruise Missile Defense Systems Project Office at Redstone Arsenal, Ala.

“This award marks the end of months of detailed work to define just how the JLENS government/industry team will design, build, test, train, and field the system,” said Souder. “We need JLENS, and this team is going to make the program a success.”

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Raytheon Targeting Pod Achieves 100,000 Flight Hours on F/A-18

The U.S. Navy has confirmed that the Raytheon Advanced Targeting Forward Looking Infrared system (ATFLIR) officially logged its 100,000th flight hour.

“When you consider that ATFLIR’s initial operational capability occurred in September 2003, it has been a relatively short time for the pod to reach this significant milestone,” said Mike Crisp, Raytheon program manager for ATFLIR. “Mission demand for ATFLIR has dramatically increased, and Raytheon continues to support an ATFLIR operational availability of well above 80 percent.”

Capt. B.D. Gaddis, Naval Air Systems Command manager for the F/A-18 program, told employees: “ATFLIR continues to be an important element and key enabler in how we employ Navy TACAIR (tactical air operations) and project power from the sea. You’ve produced a world-class sensor, and its capabilities are on the front lines of the global war on terror.”

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Raytheon Program Receives Top Network Centric Warfare Award

Raytheon's Persistent Surveillance and Dissemination System of Systems, or PSDS2, has received top honors in the network centric warfare awards sponsored by the Institute for Defense & Government Advancement. The awards honor, recognize and promote initiatives in the Department of Defense, coalition governments and defense industry that exemplify the principles of network centric warfare and support information-age transformation. PSDS2 is a networked system integrating intelligence, surveillance and reconnaissance systems, providing real time video and fused information for display and dissemination of actionable intelligence to commanders in the field.

“'This is a tremendous honor for our customer and industry team,' said Jack Harrington, Raytheon's vice president of Command and Control Systems. 'Together we've provided the warfighter a force multiplier that's proven itself invaluable in the war on terror.' The Institute's network centric warfare awards were announced during the annual forum held in Washington, D.C. The award was submitted by the Program Executive Office for Intelligence, Electronic Warfare Sensors/ Product Manager Robotic and Unmanned Sensors. PSDS2 won the first place award in the category: Best U.S. Government Program.

“'PSDS2 has given our warfighters the advantage they need to rapidly correlate, detect and engage enemy combatants in minutes rather than hours,' said Lt. Col. Reed F. Young, Army product manager. "We are proud that our efforts are truly making a difference.'

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Raytheon Successfully Tests New Solid-State Laser Area Defense System

Raytheon successfully tested a prototype solid-state laser weapon that combines the proven capabilities of the Phalanx weapon system with the power and effectiveness of lasers to defeat rockets, mortars and missiles at an operationally significant range. The LADS demonstration used a proven, existing, off-the-shelf solid-state laser, coupled with commercially available optics technology. The goal of the demonstration was to rapidly prove that lasers can yield military utility now by demonstrating that such a system could protect warfighters against mortars.

“In just six short months, Raytheon and government engineers went from an idea to operational field testing of a solid-state laser system that offers the potential of near-term protection for our troops," said Mike Booen, Raytheon’s vice president of Advanced Missile Defense and Directed Energy Weapons. “Our solid-state LADS proves you don’t have to wait another three to five years for solid-state lasers to have military utility on the battlefield. They are ready now, with no chemicals required.”

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The Little Car That Could Win Big, and Help Save Lives

Imagine this scenario: A fallen soldier stranded in enemy terrain. She has successfully radioed her position, but it’s too risky to send additional troops in to bring her home. Sounds pretty dire, but all is not lost.

Enter Chrome, the Raytheon-led Team Scorpion entry in this year’s Defense Advance Research Projects Agency (DARPA) Urban Challenge. The fully autonomous vehicle is the brainchild of a group of engineers from Raytheon and its partners – Preferred Chassis Fabrication, iRobot, the University of Arizona and Tucson Embedded Systems. One of their main goals: To build Chrome so that it can overcome risk and help bring home the men and women who put their lives on the line everyday.

Team Scorpion has passed its first milestone in a bid to make the above scenario a reality, but now the real fun begins. This time around, DARPA has made a number of changes to the competition. No longer a race through the desert, this year’s winner will have to navigate an urban setting in keeping with the new reality of warfighting.

The 60-mile course and its multiple missions must be completed in six hours, but there is a catch: No humans or remote control allowed. Chrome, along with other entries, must rely solely on its on-board technology to win. Between now and the November 2007 finals, Team Scorpion will be putting the finishing touches on Chrome and testing it in a deserted New Mexico ghost town. The prize for success is bigger than just winning what has become a de-facto cult race. The real prize and major business opportunity comes from being able to help the military fulfill its congressional mandate to have 30 per cent of its fleet be robots by 2015.

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If you have an article you would like to see published in the BD Beat or have any questions, please contact Mandy Williams, 703.841.5744
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