Lockheed Martin Achieves Critical Global Ballistic Missile Defense Milestones In 2009

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Lockheed Martin missile defense systems achieved several key milestones in 2009, including five successful intercepts and numerous other major accomplishments, further solidifying Lockheed Martin as a world leader in air and missile defense.

With 20 successful Aegis BMD intercepts, six successful Terminal High Altitude Area Defense (THAAD) intercepts and 26 successful Patriot Advanced Capability-3 (PAC-3) Missile intercepts since the inception of those programs, Lockheed Martin continues to build on its unmatched legacy as the pioneer of hit-to-kill technologies.

"Lockheed Martin is proud to continue to lead ballistic missile defense efforts for the United States and allied nations," said John Holly, vice president of Lockheed Martin's newly established Missile Defense Systems operating unit, based in Huntsville, AL. "The depth and breadth of our experience in missile defense systems allows us to meet ever-evolving threats in support of global security."

Lockheed Martin operational systems and next-generation capabilities address each phase of missile defense - boost, ascent, midcourse and terminal - in support of the U.S. Missile Defense Agency's (MDA) layered Ballistic Missile Defense System (BMDS) and international allies' requirements.

2009 Missile Defense Milestones - Weapon Systems

Aegis:

- In July, the Aegis BMD system destroyed a ballistic missile target in an at-sea firing under operationally realistic conditions - marking the continued successful engineering development of the next-generational upgrade in Aegis BMD capability.

The USS Bunker Hill completed its operational trial of its full combat system, which includes Aegis Open Architecture, in August. This milestone is part of the development path to merge Aegis Open Architecture and Aegis BMD in 2012, when the Aegis Modernization program begins for the Navy's 62 Aegis-equipped destroyers.

JS Myoko, Japan's third destroyer equipped with the Aegis BMD system, successfully intercepted and destroyed a ballistic missile target above the atmosphere during an October test event. Also that month, the MDA awarded a $1 billion follow-on contract providing for the integration of Aegis BMD into the Aegis Modernization program and a contract vehicle for the next five years to continue evolving BMD capability. Additionally, the guided missile cruiser USS Lake Erie - using the latest Aegis BMD baseline version 4.0.1 and new Aegis BSP signal processor - proved successful during a series of long-range tracking, surveillance and engagement exercises against a variety of ballistic missile targets in October.

MEADS:

- In July, the Medium Extended Air Defense System (MEADS) successfully completed Critical Design Reviews (CDRs) for all major components, clearing the way for production of radars, launchers, tactical operation centers and reloaders needed for system tests. The program is on track to complete its final system-level CDR event in August 2010, with initial flight tests planned for 2012.

The program announced that it had received approval to use a European cryptographic device to implement Identification Friend or Foe in October. The selected subsystem makes both of the MEADS radars more robust than other current U.S. systems and provides the highest level of fratricide prevention available to protect coalition pilots. MEADS is designed to permit full interoperability between the U.S. and allied armies, and it is the only medium-range air defense system to provide full 360-degree coverage.

PAC-3 Missile:

- Lockheed Martin broke ground on an expansion of its state-of-the-art PAC-3 Missile production complex in Camden, AR, in May. This new facility will allow for continued production expansion and modest hiring of new employees over the next several years.

In September, Airmen of the Japanese Self Defense Force and Lockheed Martin successfully conducted the second Japanese PAC-3 Missile flight test at White Sands Missile Range, NM. The flight test demonstrated the Patriot Configuration-3 upgrades to the Japanese Patriot ground system, and the addition of the PAC-3 Missile Segment to detect, track, engage and destroy a tactical ballistic missile target in a realistic battlefield environment.

On December 11, Lockheed Martin successfully conducted the PAC-3 Missile PC-08 Flight Test at White Sands Missile Range, NM. Preliminary test data indicates mission objectives were successfully achieved. The test demonstrated system capability using Post Deployment Build-6.5 (PDB-6.5) software to search, detect, track, engage and kill an aerodynamic Tactical Ballistic Missile (TBM) using a ripple method of fire engagement.

THAAD:

- In March, Lockheed Martin and the U.S. Missile Defense Agency conducted their sixth successful intercept in six attempts of the THAAD weapon system at the Pacific Missile Range Facility in Kauai, HI. This flight test demonstrated the system's ability to detect, track and intercept a separating target inside the Earth's atmosphere. This was the first salvo mission, with two THAAD interceptors launched against a single separating target, which is a tactical option for the system. Data indicates the first interceptor successfully destroyed the target while the second interceptor destroyed a large piece of debris from the initial intercept.

This year, Lockheed Martin employees celebrated the 10th anniversary of the first THAAD successful intercept and the 25th anniversary of the first hit-to-kill intercept of a ballistic missile target outside of the Earth's atmosphere.

In October, the U.S. Army and the MDA activated the second THAAD Battery at Fort Bliss, TX, signifying the continued integration of THAAD into the U.S. Army's Air and Missile Defense force structure. Unit training on the second THAAD Battery is underway with equipment hardware deliveries slated to occur within a year.

2009 Missile Defense Milestones - Next-Generation Capabilities and Supporting Systems

C2BMC:

- Command, Control, Battle Management & Communications (C2BMC) continues to support real-world operations 24/7 around the world in 17 time zones, supporting the Missile Defense Agency's strategic and regional objectives.

Logistics and Sustainment:

- In November, Global Aerospace Logistics, LLC (GAL), Lockheed Martin and Raytheon announced the signing of a Joint Collaborative Agreement that will establish world-class logistics and sustainment services for the United Arab Emirates' air and missile defense systems. Under the agreement, GAL will work with Raytheon and Lockheed Martin to develop a logistics and sustainment capability to meet the immediate and future needs of the UAE's air and missile defense strategy.

Targets and Countermeasures:

- Through 2009, Lockheed Martin's Targets and Countermeasures Program has achieved 33 successful target missions out of 34 since 1996. Lockheed Martin's unmatched 97 percent reliability rate has included unitary and separating targets, spanning land, sea and air launches. In 2009, Lockheed Martin shipped the next-generation Launch Vehicle-2 target to a test range in preparation for an upcoming test.

Space Based Infrared System (SBIRS):

- In November, the Lockheed Martin-led team developing the Space Based Infrared System (SBIRS) program for the U.S. Air Force successfully completed thermal vacuum testing of the first geosynchronous (GEO-1) satellite, one of the most significant program milestones that validates spacecraft performance in a simulated space environment. The first SBIRS GEO spacecraft is planned for delivery to Cape Canaveral Air Force Station in late 2010, where it will then undergo final processing and preparation for launch aboard an Atlas V launch vehicle.

Lockheed Martin plays a critical role in the nation's layered air and missile defense system. In addition to operational defenses, Lockheed Martin provides the backbone systems that integrate the sensors, command and control, and weapon system elements of the ballistic missile defense system. The corporation also is focused on next-generation capabilities and provides targets and other methods to test system elements.

Lockheed Martin is a world leader in systems integration and the development of air and missile defense systems and technologies, including the first operational hit-to-kill missile defense system. It also has considerable experience in missile design and production, infrared seekers, command and control/battle management and communications, precision pointing and tracking optics, and radar and signal processing. The company makes significant contributions to all major U.S. missile defense systems and participates in several global missile defense partnerships.

Headquartered in Bethesda, Md., Lockheed Martin is a global security company that employs about 140,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. The corporation reported 2008 sales of $42.7 billion.

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