

Boeing Defense, Space & Security
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Arrow Weapon System

Description & Purpose:

As the world's first operational national missile defense system, the Arrow Weapon System successfully destroys targets using the latest technology to meet a continually evolving threat. The Arrow Weapon System is Israel's national missile defense system, using the two-stage Arrow 2 interceptor to destroy an incoming target with a fragmentation warhead. Short-and-medium-range ballistic missile threats require prompt and effective self-defense capabilities, and Arrow provides Israel with flexible and cost-effective protection from ballistic missile threats. The Arrow program has been a cooperative effort between the U.S. Missile Defense Agency and Israel Missile Defense Organization since 2002.



February 2013 Flight Test

Arrow 3, the newest addition to the Arrow Weapon System, is the upper tier in the Arrow family of weapons that incorporates new communications, guidance and seeker technology to combat a continually advancing threat. The threat of more sophisticated missiles, including the threat of weapons of mass destruction, requires a multi-tiered approach. Arrow 3, also a two-stage interceptor, will destroy an incoming target with an exo-atmospheric kill vehicle and provide additional defense capability for evolving threats. Other system elements are a launch control center, fire-control radar and battle management center. The Arrow 3 Interceptor executed a successful fly-out test in early 2013 and other system-level tests are expected to follow.

Customer:

Israel Aerospace Industries (IAI), the prime contractor for the Arrow system, is responsible for system integration and final interceptor assembly in Israel. Boeing production and management are in Huntsville, Ala.

Boeing and IAI co-produced the Arrow 2 interceptor and are co-developing the Arrow 3 interceptor for the Israel Ministry of Defense (MOD). Boeing was responsible for production of about 35 percent of the Arrow 2 interceptor components, including major components and subsystems. IAI, the prime contractor for the Arrow system, is responsible for total system integration and final interceptor assembly in Israel. Boeing production and management are in Huntsville, Ala.

For Arrow 3, Boeing is responsible for 15-20 percent of the development content and 40-50 percent of the production content. Expected work content includes motor cases, shroud, canister, Safe & Arm / Ignition Devices, power devices (batteries), and Inertial Navigation Units, as well as several avionics packages and actuators & valves.

Boeing and IAI began the joint development of the Arrow 3 interceptor in late 2008 and will be a cooperative partner in Arrow 3 production.

Background:

IAI delivered the first coproduced Arrow 2 interceptor to the MOD in the spring of 2005. In cooperation with the U.S. Missile Defense Agency, Israel's MOD has completed four successful flight tests of the coproduced Arrow 2 interceptor since 2007. In three of those tests, conducted February 2011, April 2009 and February 2007, the interceptor destroyed a target missile. The March 2007 test demonstrated a successful interceptor fly-out to collect flight test engineering data of an enhanced capability interceptor and did not involve a target intercept.

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