

Boeing Defense, Space & Security
P.O. Box 516
St. Louis, MO 63166
www.boeing.com

Arrow Weapon System



February 2011 Flight Test

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.

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. Short-and-medium-range ballistic missile threats require prompt and effective self-defense capabilities. The threat of more sophisticated missiles, including the threat of weapons of mass destruction, requires a multi-tiered approach. The Arrow program has been a cooperative effort between the U.S. Missile Defense Agency and Israel Missile Defense Organization since 2002. Boeing was responsible for production of about 35 percent of the Arrow interceptor components.

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. 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.

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. Arrow provides Israel with flexible and cost-effective protection from ballistic missile threats.

Customer:

Boeing and IAI coproduce the Arrow 2 interceptor and are 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. 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.

Background:

The first coproduced Arrow 2 interceptor was delivered by IAI to the MOD in the spring of 2005. Israel's MOD, in cooperation with the U.S. Missile Defense Agency, has completed four successful flight tests of the coproduced Arrow II interceptor since 2007. In three of those tests, conducted February 2011, April 2009 and February 2007, the interceptor destroyed a target missile. In the other test, which occurred in March 2007, the objective was an interceptor fly-out to collect flight test engineering data of an enhanced capability interceptor and did not involve a target intercept. Boeing-IAI co-development of the next-generation Arrow III interceptor began in late 2008 and will be followed by coproduction.

Miscellaneous:

Boeing was responsible for major components and subsystems of the Arrow 2 interceptor. This included the Section II electronics assembly (part of the avionics and guidance subsystem); the nose cone; the canister assembly that houses the interceptor; electrical subsystems; and motor cases. Major suppliers are General Dynamics (Lincoln, Neb.), L3 Ordinance (Cincinnati), GW Lisk (Clifton Springs, N.Y.), and Honeywell (Minneapolis, Minn.).

Boeing is currently working jointly on production development of the Arrow 3 interceptor and will be a cooperative partner in Arrow 3 production.

###

Contact:

Jessica Carlton
Boeing Strategic Missile & Defense Systems
256-461-5124
jessica.m.carlton@boeing.com

March 2012