Backgrounder

Boeing Defense, Space & Security
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Harpoon Block II

Description and Purpose:
Harpoon Block II is the world's premier anti-ship missile. It features autonomous, all-weather, over-the-horizon capability and can execute both land-strike and anti-ship missions. The 500-pound blast warhead delivers lethal firepower against a wide variety of land-based targets, including coastal defense sites, surface-to-air missile sites, exposed aircraft, port or industrial facilities and ships in port.

Harpoon Block II provides accurate long-range guidance for land and ship targets by incorporating the low-cost inertial measuring unit from the Boeing Joint Direct Attack Munition (JDAM) program and the software, mission computer, integrated Global Positioning System/Inertial Navigation System, GPS antenna and receiver from the Standoff Land Attack Missile Expanded Response (SLAM ER).

The multi-mission Block II is deployable from all current Harpoon missile system platforms with either existing command and launch equipment or the commercially available Advanced Harpoon Weapon Control System (AHWCS).

Background:
Boeing and the U.S. Navy marked the 40th anniversary of the Harpoon Missile System in June 2011. Boeing has delivered more than 7,300 Harpoon and Harpoon Block II missiles for the U.S. Navy and more than 30 international military customers since the inaugural Harpoon contract was awarded by Naval Air Systems Command on June 21, 1971. More than 600 ships, 180 submarines, 12 different types of aircraft, and several land-based launch vehicles carry Harpoon missiles. Nearly 300 Boeing team members develop, build, maintain and provide operational support for Harpoon at the St. Charles facility, which opened in July 1979.

General Characteristics:

Length:	182.2 in. ship launch, 151.5 in. air launch
Diameter:	13.5 in.

Weight:	1,160 lb. Air configuration 1,459 lb. ASROC configuration 1,520 lb. TARTAR configuration 1,523 lb. Capsule/canister configuration
Range:	In excess of 67 NM
Propulsion:	Air-breathing turbojet engine (cruise), solid-propellant booster
Guidance:	Terminal: Active Radar Midcourse: GPS-aided inertial navigation
Warhead:	Penetration, high-explosive blast
System Elements:	Missile - Common for all launch platforms Booster - For surface, sub and land based applications Launch Support Structure and Canisters Command and Launch System - Provides engagement planning and launch control
Platforms:	Air, land, surface and sub-surface applications
Ships:	Fast patrol boats, destroyers and frigates
Aircraft:	F/A-18, F-15, F-16, F-27, F-50, P-3, S-3
Submarines:	Wide range of classes with 9 foreign navies
Coastal Defense:	Mobile Land Based Truck Platform

In August 2009, Boeing delivered the first Harpoons with an upgraded Guidance Control Unit (GCU) that solves obsolescence issues and provides for future enhancements, such as a data link.

In July 2011, Boeing was awarded a firm-fixed-price contract for $120 million by the U.S. Navy for the production of nearly 60 Lot 86 Harpoon missiles and associated hardware for the U.S. and six foreign militaries. The Harpoon deliveries began in August 2011 and contract work is expected to run through June 2012.

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