BQM-74F

High Performance Subsonic Aerial Target System

Unmanned. Unmatched.

NORTHROP GRUMMAN DEFINING THE FUTURE™

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The Legend Continues

With increased speed, maneuverability, range and payload capacity the BQM-74F is the next generation in threat simulation.

BQM-74F

The Next Generation: Offering New Dimensions in Target Performance and Capability

The BQM-74F is being developed by Northrop Grumman under a U.S. Navy System Development and Demonstration (SDD) contract. Building on the proven success of the BQM-74E, the BQM-74F improves the speed, range, maneuverability, and endurance, increases the payload capability, modernizes the support equipment and retains the utility of a portable, deployable system.

A new airframe with swept wings and tails coupled with an upgrade to the thrust of the BQM-74 engine from 240 to 300 pounds pushes the speed to 0.92M at sea level and increases maneuverability to eight-g instantaneous (five-g sustained). Aggressive all-axis weave maneuvers down to 7 feet provide threat representative ingress maneuvers.

Waypoint navigation is a standard operating mode for the BQM-74F using the integrated IMU/GPS avionics system. Mission planning capability integrated into the PC based support equipment provides detailed mission plans verified with imbedded 6-DOF simulation capability for pre-flight verification. Six missions of up to 70 waypoints are pre-programmable and selected both pre and post launch. Mission profile may be adjusted via the command and control data link. The weave capability includes pre-programmed fixed circular and flat weave maneuvers and user programmable weaves. PC based field test equipment provides real time simulation of programmable weaves prior to download into the air vehicle avionics, and pre-loaded weave maneuvers may be selected after launch. All these features make the BQM-74F the foremost cruise missile replicator available.

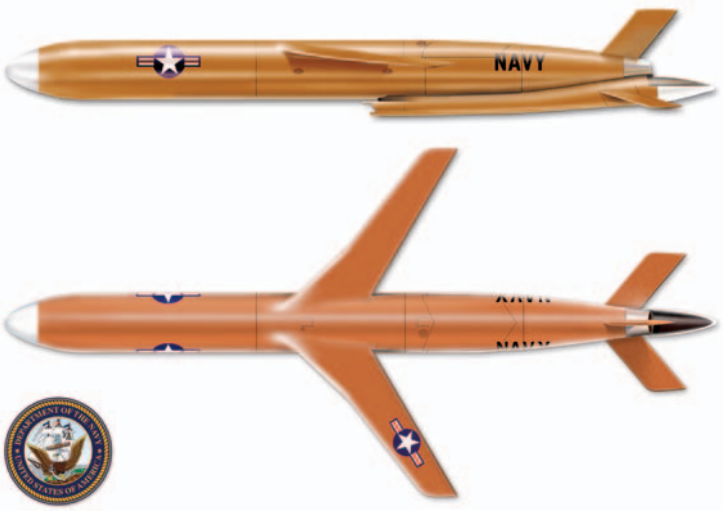
Work on this contract began in March 2002 and will be completed in 2005, with the first vehicle deliveries scheduled to phase in shortly thereafter. First flight is currently scheduled for 2005.

Payloads

- Passive or Active Radar Augmentation
- Seeker Simulators
- Infrared Augmentation
- Tow System
- Scoring Systems
- IFF
- Electronic Countermeasures

Specifications

Length	15 ft (4.5 m)
Wingspan	7 ft (2.1 m)
Range	500 nm (926 km)
Altitude	
Low	7 ft (2.1 m)
High	40,000 ft (12.2 km)
Speed	>600 Knots at Sea Level
Weight	620 lbs (281 kg)
Endurance	>115 Minutes
Navigation	GPS/IMU
Fuel	Jet Fuel (JP-5, JP-8, or Jet A-1)



Northrop Grumman • Integrated Systems • Western Region
P.O. Box 509066 • San Diego • California 92150-9066 • www.northropgrumman.com/unmanned
Contact: Gemma B. Loochkartt • 858.618.4245 • E-Mail: gemma.loochkartt@ngc.com
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