Backgrounder

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Joint Surveillance Target Attack Radar System

Description and Purpose:
The Boeing Next Generation Joint Surveillance Target Attack Radar System (JSTARS) will provide an affordable low-risk, high-capability combat platform for the U.S. Air Force recapitalization of the current JSTARS fleet. Based on a modified Next-Generation 737-700, and building on Boeing's 50-plus-year history of delivering unique military capabilities based on Boeing commercial airplanes, the Next Generation JSTARS will have the capability, capacity and reliability to meet the mission needs of today and tomorrow.

Background:
By enabling reliable communications and multi-stream data flows among both air-to-air and air-to-ground assets, Next Generation JSTARS will significantly improve battle space awareness and predictive analytics for warfighters in-theater and ground-based commanders.

Capabilities include a ground surveillance radar as well as proven battle management command and control software leveraged from the fielded technologies of the P-8A, AEW&C and AWACS Block 40/45 mission systems.

Combining power, speed, range, reliability and payload efficiency, all with an eye toward affordability in both initial procurement and total lifecycle operating costs, Next Generation JSTARS will be designed to support a planned 30-year platform life with a capacity for growth.

In addition, the system will offer the US Air Force the benefit of Boeing expertise in training and support through all phases of the system's lifecycle.

General Characteristics:

737-700 Specifications

Length	**110.3 ft**
Max Take-off Weight	**171,000 lbs**
Max Payload	**~49,000 lbs**
Floor Space	**~800 sq ft**
Max Endurance with Mission Payload	**11.5-12.5 hours**
Fuel Burn with Mission Payload	**4,800-5,000 lb/hr**
Short Field Takeoff at MTOW	**<7,000 ft**
Operating Altitude with Payload	**35,000 to 41,000 ft**
Cruise Speed	**405-445 kts**
Available Power	**360 kVa (engine) 90 kVa (APU)**

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