



**NGAUS**  
The National Guard Association of the United States

## *Fact Sheet*

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### **Active Electronic Scanned Array (AESA) Radar for F-15**

**Background:** The APG-63(V)3 AESA radar will replace the current APG-63(V)0 mechanically scanned radar by a stationary panel covered with an array of over one thousand transmitter-receiver modules. These modules leverage combined power and can perform different detection, tracking, communication, and jamming functions in multiple directions simultaneously. AESA provides significant increases in precision to detect, track, and eliminate multiple threats faster and with greater efficiency. Additionally, AESA eliminates the hydraulic and electrical systems associated with mechanically operated radars resulting in dramatically improved reliability and maintainability. The F-15's primary advantages in air-to-air remains the Beyond-Visual-Range (BVR) arena. The BVR arena requires an ability to detect current and future generation airborne threats to retain the first shot, first kill, which is essential to effective employment.

The Air National Guard would prefer all F-15s have the AESA System but has set as a minimum requirement to have 48 aircraft equipped with the system and ready to respond immediately to threats. This would provide eight systems per operational unit.

#### **Units Impacted:**

102 FW Otis ANGB, MA

104 FW Westfield, MA

120 FW Great Falls, MT

125 FW Jacksonville, FL

131 FW St. Louis, MO

142 FW Portland, OR

154 WG Hickam AFB, HI

159 FW New Orleans, LA

173 FW Klamath Falls, OR

**Request/Recommendation:** The National Guard Association of the United States urges the Congress of the United States in FY09 to authorize and appropriate \$62.4 million for eight APG-63(V)3 AESA systems with the associated spares, support and training for Air National Guard F-15s.

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