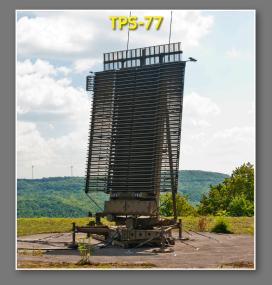


World's Leading Manufacturer of Ground-Based Radar Systems



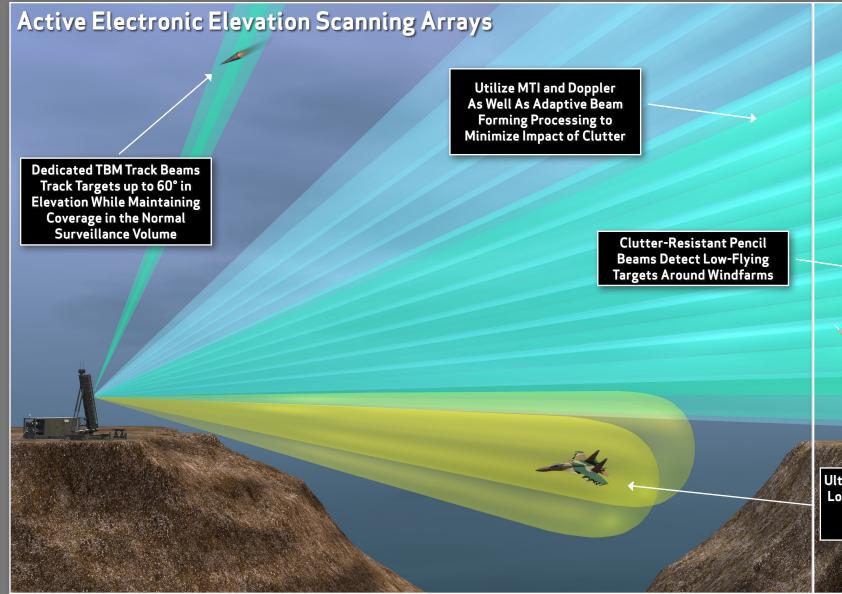
FPS-117, TPS-77 and TPS-59 Radars Offers A Proven Advanced Architecture

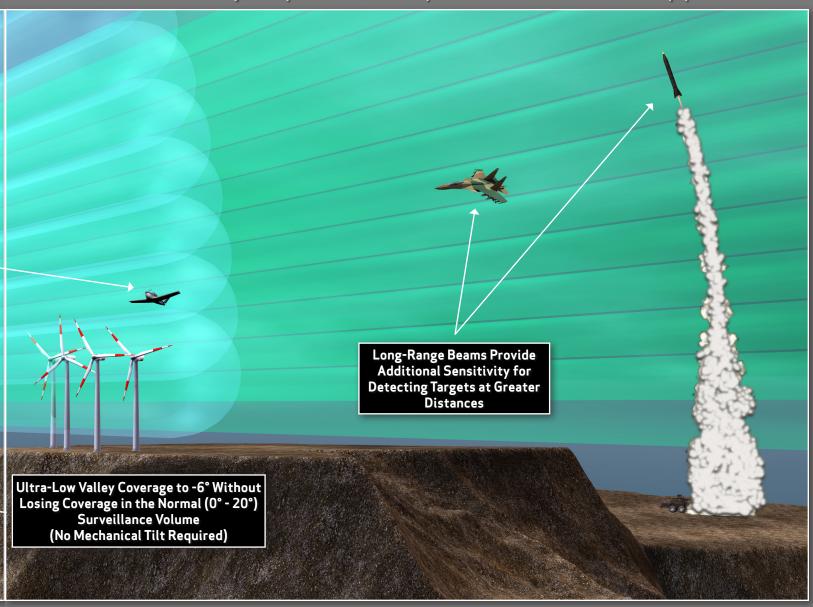




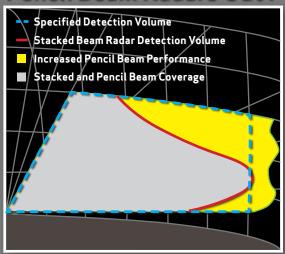


- D/L Frequency Band and Scanning Pencil Beam Architectures Makes Radars Highest Performing in Class
- 30+ Years Experience Developing Adaptive Algorithms for Complex Operating Environments (Cognitive Radars)
- Radars Provide Simultaneous Low, Medium and High Altitude Coverage
- Full Monopulse Provides Accurate Target Position in Single Beam Dwell
- Fully Independent Transmit and Receive Beams Allows Multiple Missions Simultaneously
- Proven Radar Design that is Routinely Updated with "State-of-the-Art" Technology
- Radars Delivered Mission Ready with Operator Shelter and Space for Customer Communication Equipment





Pencil Beam Radars Out Perform Stacked Beam Radars

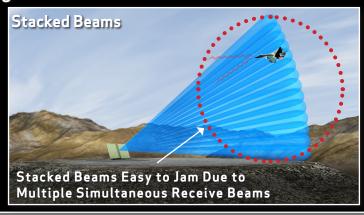


Characteristics	Limitation of Stacked Beams
Total Elevation Coverage	Beam Shape Limits Elevation Performance
Terrain Adaptation	No Sectorized Terrain Adaptation
Look-Down Capability	Requires Mechanical Tilt
TBM Track	Limited to Normal Volume Only: <20°
Low Elevation Detection	Limited Due to Transmit Beam Shape
Susceptibility to Jammers	Multiple Simultaneous Receive Beams

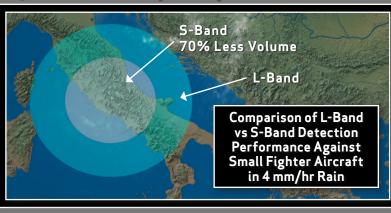
Stacked Beam Radars More Susceptible to Jamming

Advantage of Pencil Beam Radars Against Active Jamming





D/L-Band Frequency of Choice for Long Range Surveillance Radars



- Significant Performance Advantage in Clutter Over S-Band Radars
- Greater than 20 db Clutter Rejection Improvement Over S-Band Radars
- Lower Frequency Makes Radars Less Susceptible to Different Forms of Clutter
- In 4 mm/hour Rain, L-Band Provides Almost 3.5 Times More Surveillance Volume Than S-Band

Best Support in the Industry

- Each Radar Backed by a Strong Support Network
- For More than 30 Years No Radar Taken Out of Service
- LM Users Conference Customers Introduced to Latest in Radar Technology











Copyright ©2013 Lockheed Martin Corporation All rights reserved PIRA#TOP201303002

For more information, contact us at:
Lockheed Martin
Mission Systems and Training (MST)
300 M Street, SE
Washington, D.C. 20003, USA
www.lockheedmartin.com/mst/product contacts