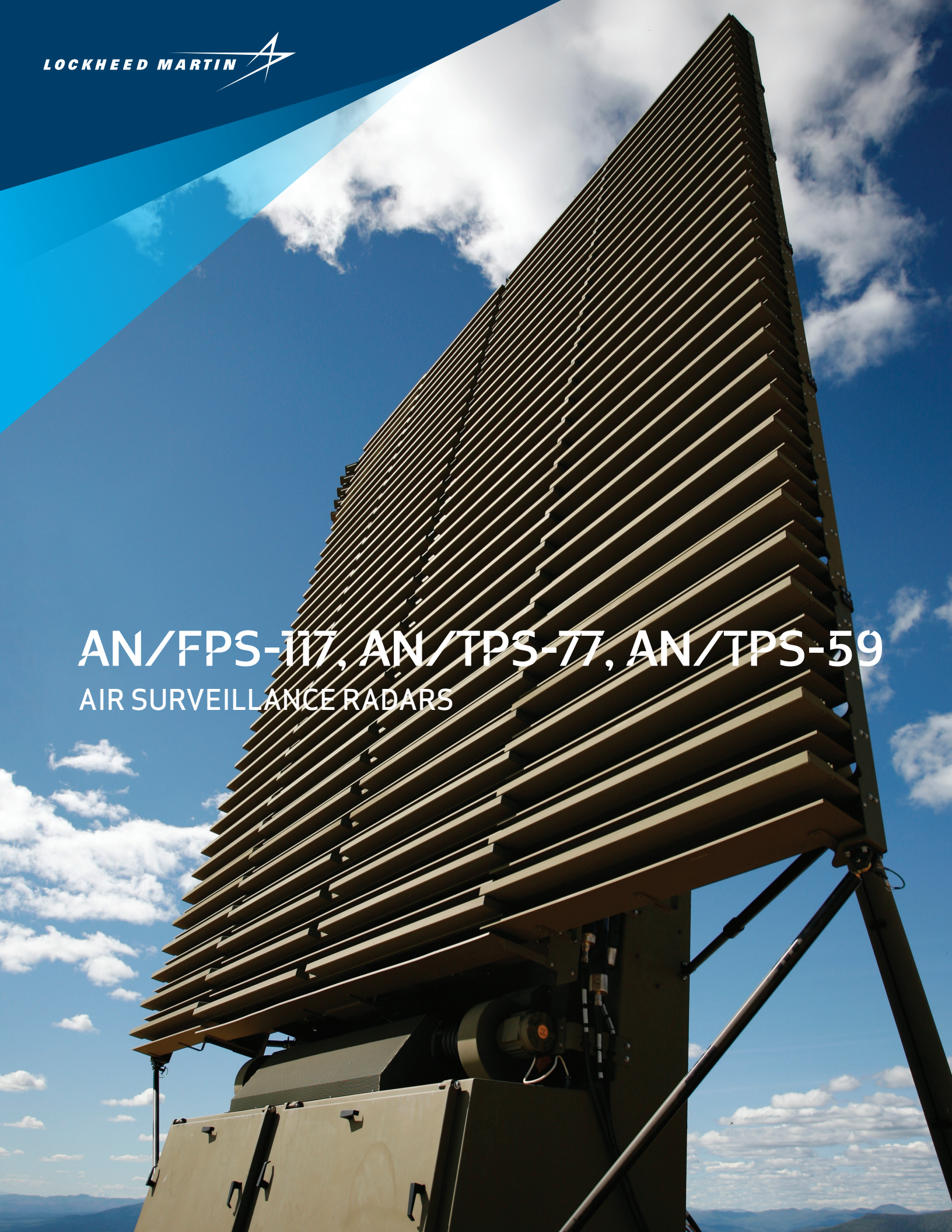


AN/FPS-117, AN/TPS-77, AN/TPS-59

AIR SURVEILLANCE RADARS

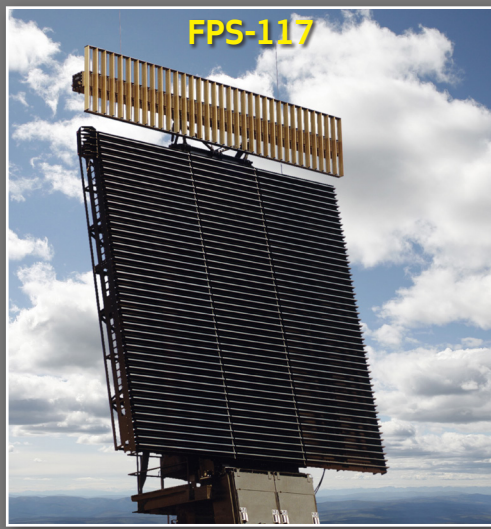


World's Leading Manufacturer of Ground-Based Radar Systems

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

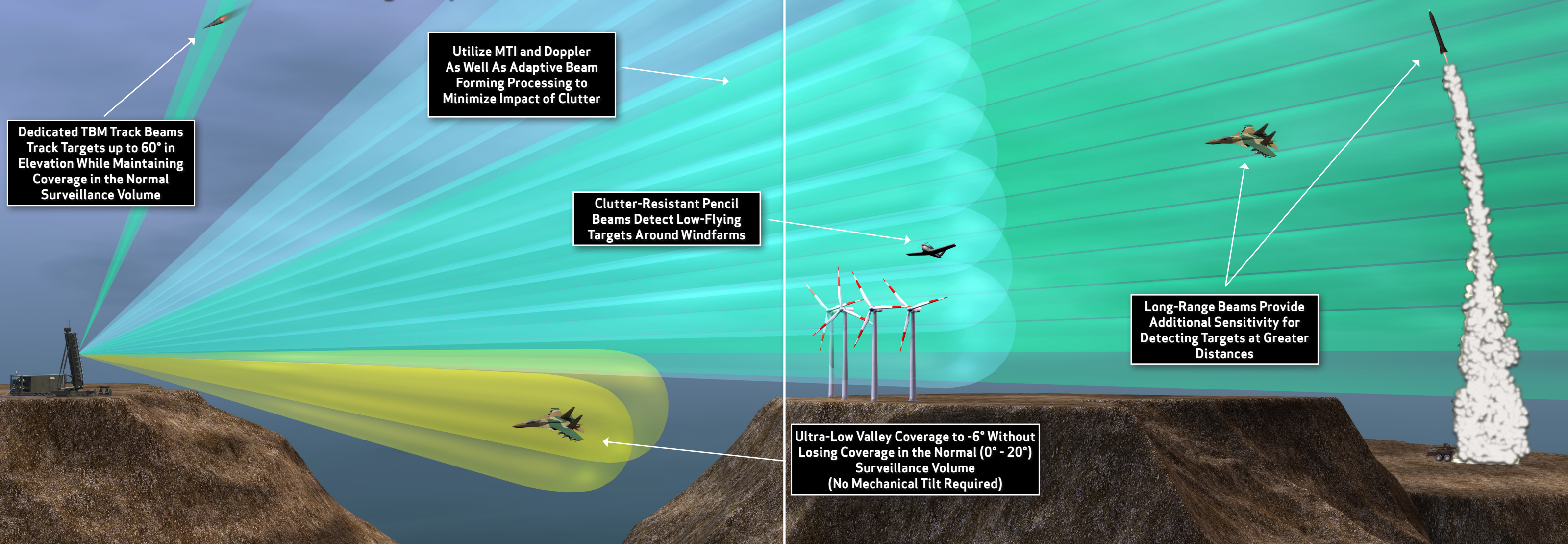
North America 47
South America 6
Europe 41
Middle East 50
Asia 30
Australia 4

- Reliably Developing and Delivering Radar Systems to Our Customers for Over 60 Years
- Utilize State-of-the-Art Technology in All Our Radar Products
- Leader in Solid-State Electronically Steered Phased Array Technology
- Over 175 Long-Range Ground-Based Radars Delivered World Wide - Greater Than any Other
- Proven Operational Performance Under All Environmental Conditions

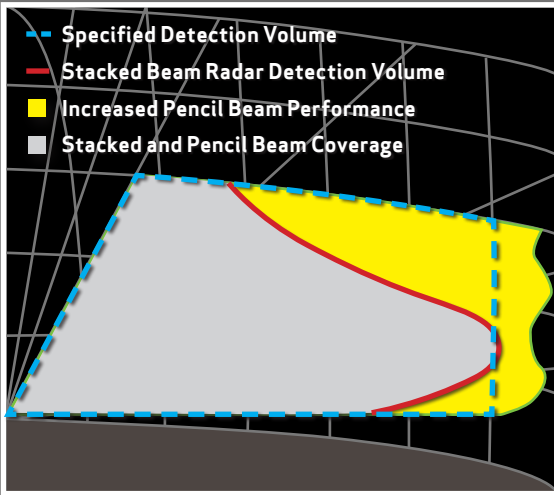


- D/L Frequency Band and Scanning Pencil Beam Architectures Makes Radars Highest Performing in Class
- 30+ Years Experience Developing Adaptive Algorithms for Complex Operating Environments (Cognitive Radars)
- Radars Provide Simultaneous Low, Medium and High Altitude Coverage
- Full Monopulse Provides 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

Active Electronic Elevation Scanning Arrays



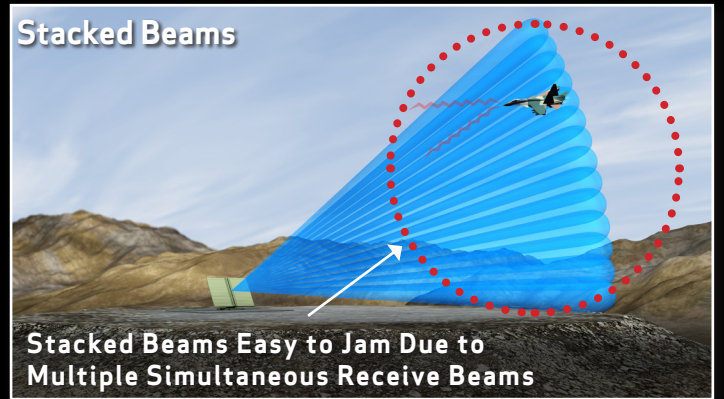
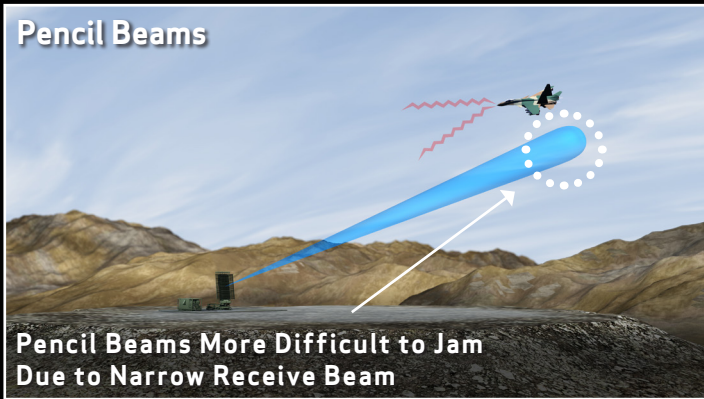
Pencil Beam Radars Out Perform Stacked Beam Radars



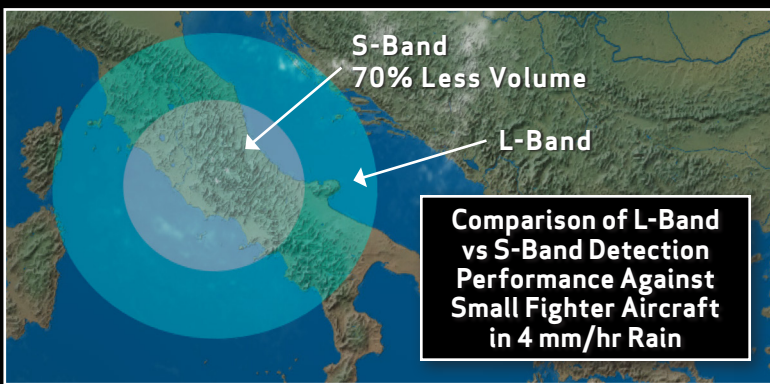
Characteristics	Limitation of Stacked Beams
Total Elevation Coverage	Beam Shape Limits Elevation Performance
Terrain Adaptation	No Sectorized Terrain Adaptation
Look-Down Capability	Requires Mechanical Tilt
TBM Track	Limited to Normal Volume Only: $\lt; 20^\circ$
Low Elevation Detection	Limited Due to 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



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