



AN/TPS-59

LONG-RANGE AIR SURVEILLANCE RADARS

TPS-59 Long-Range Radar System

Radar Characteristics

General Characteristics

Frequency Band (D/L) - 1215 to 1400 MHz
Active Electronic Elevation Scanning Array

Antenna Characteristics

Peak RF Power 46 kw
Average RF Power 11 kw
Antenna Aperture Size 49.2 m² (529.6 ft²)
Number of Active Rows 54
Scan Rate (Dual) 6/12 RPMs

Coverage Volume

Range 10 - 740 km (4 - 400 nmi)
Azimuth 360°
Height 0 - 305 km (0 - 1000 kft)
Elevation 0° to +60°

TPS-59 Performance

Frequency Control

Random Frequency Selection
20 Center Frequencies

ABT Detection

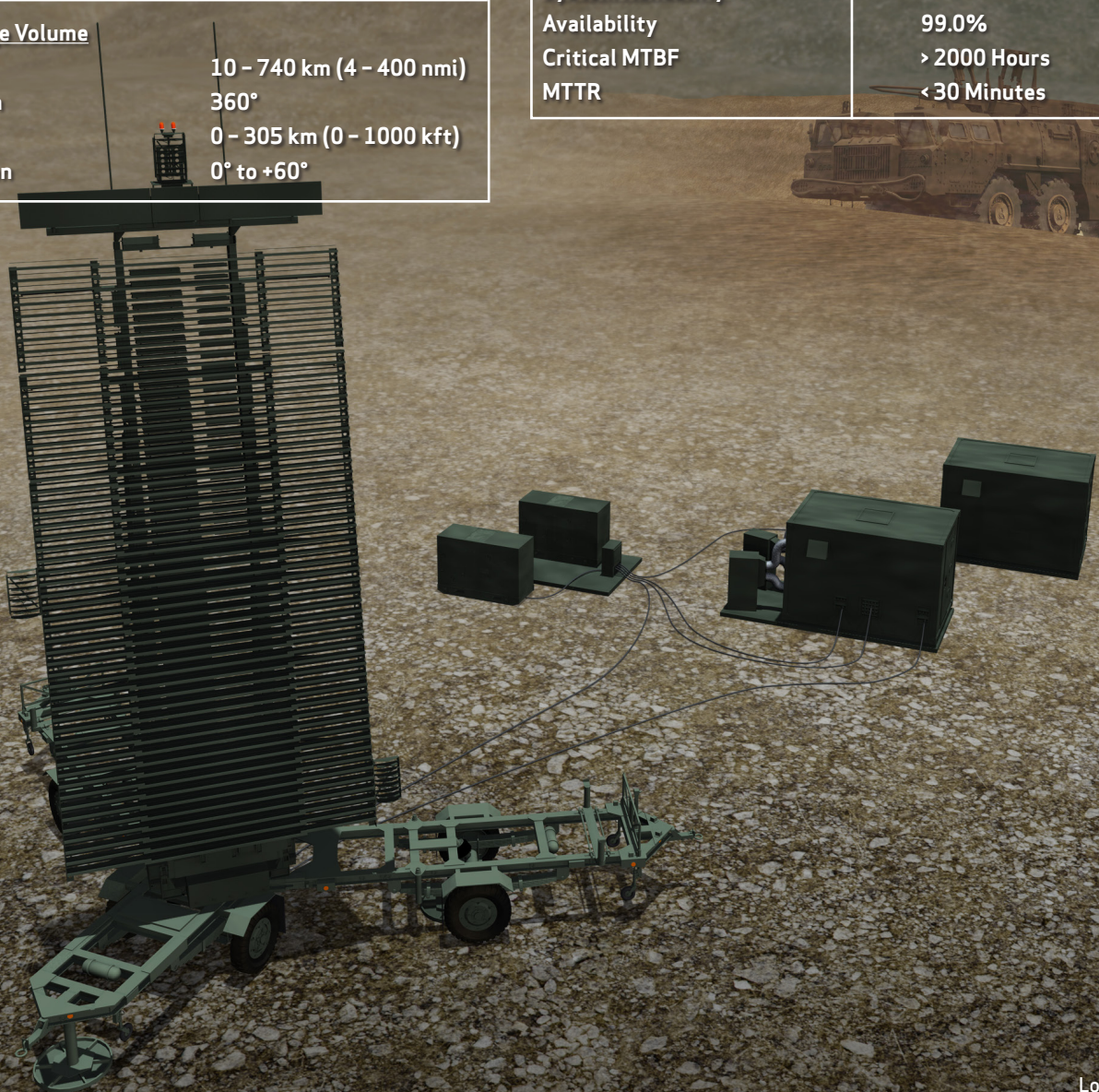
370 km (200 nmi)

ABT Accuracy

Range 100 ft (80 nmi)
Azimuth 3mrad (100 nmi)
Height 1000 ft at (100 nmi)

System Reliability

Availability 99.0%
Critical MTBF > 2000 Hours
MTTR < 30 Minutes



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