Radar (AN/TPS-77) - 1x + 1x

United States

Type: Mobile Vehicle(s)
Commissioned: 0
Operator: Air Force
Length: 4 m
Width: 6 m
Crew: 0



Sensors / EW:
- AN/TPS-77 - (AN/FPS-117) Radar, Radar, Air Search, 3D Long-Range, Max range: 555.6 km

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OVERVIEW: The AN/TPS-77 is mobile, 3-D long range, phased array radar tactical mobile radar operating in the "D" Band.

DETAILS: The function of TPS-77 is "tactical control and/or surveillance of air operations from any location". The TPS-70 tactical radar provides reliability, sensitivity, and accuracy, even in the face of jamming and high-clutter conditions. It uses an Active Electronic Elevation Scanning Array and is capable of detecting ballistic missile targets.

Specifications:

Frequency: 1215-1400 MHz (NATO D Band)(IEEE: L Band)
Power output: 3.6 kW (average), 29 kW (peak)
PRF: 241 (est, based on FPS-117)
Accuracy: 50 m/ 0.25 degrees azimuth
Runup time: Unknown
Set up/Stow time: 30 minutes

Detection Ranges
(80%Pd, 1 m2 RCS ABT target): 300 km

Max Range (TBM tgt): 470 km

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NOTES: IOC 1980. Systems is aircraft, Helo and Truck transportable. Used by many countries Air Forces including Switzerland, Australia, Canada, Columbia, Germany (FRG/Reunited), Iran, Israel, Jordan, Mexico, Morocco, Pakistan, South Korea, Spain, Thailand, UAE, Yugoslavia and Saudi Arabia. The fixed version of the AN/TPS-77 is called the AN/FPS-117 and is used as part of the American-Canadian North Warning System of radars.

SOURCES: FAS "AN/TPS-70" http://www.fas.org/man/dod-101/sys/ac/equip/an-tps-70.htm ; Lockheed Martin, "AN/TSP-77 Long Range Air Surveillance Radars", http://www.lockheedmartin.com/content/dam/lockheed/data/ms2/documents/TPS-77-Fact-Sheet.pdf ; "AN/TPS-77." Guide to Military Equipment and Civil Aviation. Accessed April 4, 2015. http://www.deagel.com/Ground-Sensors/ANTPS-77_a001518001.aspx ; Lockheed Martin. Accessed December 1, 2013. ; http//www.lockheedmartin.com/content/dam/lockheed/data/ms2/documents/TPS-77-Fact-Sheet.pdf ; Home Page. Accessed December 1, 2013. http://www.mobileradar.org/Documents/TPS_77.pdf ; Home Page. Accessed December 1, 2013. http://www.mobileradar.org/Documents/TPS_77.pdf