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TPN-31

Outlook

- Raytheon's TPN-31 is a mobile ground-controlled approach system that provides air traffic services
- No production is forecast

Orientation

Description. The TPN-31 is a mobile ground-controlled approach system that provides air traffic services where no operational airport control and landing system exists. The TPN-31 is manufactured by Raytheon Company.

Note: *The TPN-31 is also known as the Air Traffic Navigation, Integration and Coordination System or ATNAVICS.*

Sponsor

Raytheon Command and Control Systems
Air Traffic Management
1001 Boston Post Rd
Marlborough, MA 01752 United States
Tel: + 1 (508) 490-3045
Fax: + 1 (508) 490-3322

Status. In service.

Application. Air traffic services.

Price Range. The price of a single TPN-31 ranges from \$6 million to \$9 million, depending on installation and ancillary equipment/requirements.

Contractors

Prime

Raytheon Command and Control Systems, Air Traffic Management

<http://www.raytheon.com/businesses/ncs/c2s/AirTrafficManagement/>, 1001 Boston Post Rd, Marlborough, MA 01752 United States, Tel: + 1 (508) 490-3045, Fax: + 1 (508) 490-3322, Email: C2S Solutions@raytheon.com, Prime

Comprehensive information on Contractors can be found in Forecast International's "International Contractors" series. For a detailed description, go to www.forecastinternational.com (see Products & Samples/Governments & Industries) or call + 1 (203) 426-0800.

Contractors are invited to submit updated information to Editor, International Contractors, Forecast International, 22 Commerce Road, Newtown,

TPN-31

CT 06470, USA; rich.pettibone@forecast1.com

Technical Data

Performance Parameters

	<u>ASR</u>	<u>SSR/IFF</u>	<u>PAR</u>
Range coverage:	25 nm	> 60 nm	15 nm
Azimuth coverage:	360°	360°	±15°
Elevation coverage:	10,000 ft	-	-1° to ±6°
Processing:	Adaptive Moving Target Detection	-	Adaptive Moving Target Detection
Update rate:	4 s	-	1 s
Mode:	-	1, 2, 3A, C and secure Mode 4 operation	-
<u>Accuracy</u>			
Azimuth:	1.8°	0.8°	0.34°
Elevation:	-	-	0.23°
Range:	360 ft	350 ft	88 ft
Probability of Detection:	90% (3 m2 target at 25 nmi in rain)	99% (at 25 nmi in rain)	90% (1 m2 target at 10 nmi in rain)
System MTBCF:	>980 h	-	-
System MTTR:	30 m	-	-
System availability:	97%	-	-

TPN-31(V)

Source: Raytheon Co

Program Review

In August 2006, Raytheon Company announced that it had received a contract from the U.S. Army to manufacture, test, and deliver up to 30 TPN-31 Air Traffic Navigation, Integration and Coordination Systems (see **Contracts/Orders & Options**). Under this contract, Raytheon would also supply nine FPN-67 radar systems.

In September 2008, the U.S. Army awarded Raytheon a \$7.55 million dollar contract for undisclosed work for the Air Traffic Navigation, Integration and Coordination System and the FPN-67 Fixed Base Precision Approach Radar (see **Contracts/Orders & Options**).

Contracts/Orders & Options

<u>Contractor</u>	<u>Award (\$ millions)</u>	<u>Date/Description</u>
Raytheon	20.8	Apr 2002 – Option to a previously awarded contract for production of two TPN-31(V) ATNAVICS and six FPN-67(V) FBPAR systems.
Raytheon	16.9	Mar 2003 – Mod to FFP contract for three Air Traffic Control and Landing Systems (ATCALs) and six Fixed-Base Precision Approach Radar (FBPAR) systems. Completed Apr 2004. (DAAB07-95-C-B001)
Raytheon	2.1	Sep 2003 – Contract for production of spare parts. (NDAAB07-95-C-B001)
Raytheon Company	200.00	Aug 2006 – U.S. Army contract with a potential value of \$200 million (with all options exercised) to manufacture, test, and deliver up to 30 TPN-31 Air Traffic Navigation, Integration and Coordination System (ATNAVICS) and nine FPN-67 FBPAR systems over five years (until 2011).
Raytheon Company	7.55	Sep 2008 – U.S. Army contract for ATNAVICS and FPN-67 FBPAR. Work was completed in Sep 2010. CECOM Acquisition Center, Fort Monmouth, NJ, is the contracting activity. (W15P7T-06-G-B601)

Timetable

<u>Month</u>	<u>Year</u>	<u>Major Development</u>
Aug	2006	Raytheon announces receipt of contract for up to 30 TPN-31 Air Traffic Navigation, Integration and Coordination Systems and 9 FPN-67 radar systems
Sept	2008	U.S. Army awards Raytheon Company an FFP contract for Air Traffic Navigation, Integration and Coordination System and FPN-67 Fixed Base Precision Approach Radar

Worldwide Distribution/Inventories

The **United States**.

Forecast Rationale

The TPN-31 is a mobile ground-controlled approach system that provides air traffic services where no operational airport control and landing system exists. The TPN-31 is manufactured by Raytheon Company.

The last publicly disclosed activity regarding Raytheon's TPN-31 was a September 2008 contract announcement. No production is forecast.

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