ASR-12

Outlook

- The ASR-12 is an Airport Terminal Surveillance Radar manufactured by Northrop Grumman
- No production is forecast
- Barring further activity, this report will be archived in August 2013

Orientation

Description. The ASR-12 is an Airport Terminal Surveillance Radar manufactured by Northrop Grumman.

Sponsor

Northrop Grumman Corp Electronic Systems Sector PO Box 17319 Baltimore, MD 21203-7319 USA

Tel: +1 (410) 765-1000 Fax: +1 (410) 993-8771

Web site: http://www.northropgrumman.com

Status. In service.

Application. Airspace surveillance in terminal control areas.

Price Range. The price of a radar varies with site-specific requirements. The unit cost ranges from an estimated \$2.9 million to \$3.6 million.

Contractors

Prime

Northrop Grumman Electronic Systems	http://www.es.northropgrumman.com, 1580-A W Nursery Rd, Linthicum, MD 21090 United States, Tel: + 1 (800) 443-9219, Email: ES_Communications@ngc.com, Prime
Indra Sistemas SA	http://www.indracompany.com, 35 Bruselas Ave, Alcobendas, Madrid, 28108 Spain, Tel: + 34 91 480 50 00, Fax: + 34 91 480 50 80, Email: indra@indracompany.com, Licensee

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

Page 2 **Radar Forecast**

ASR-12

Technical Data

Metric <u>U.S.</u>

Characteristics Frequency 2.7 - 2.9 GHz Peak power 22 kW

Pulse width 1 µsec, 55 µsec

Instrumented range 60, 80, 100 nm 111, 148, 185 km Resolution

Range 230 m

747 ft Azimuth 2.8 deg

Accuracy (rms)

Range ± 38 m ± 121.6 ft

Azimuth ± 0.12 deg Track capacity 1,000 targets Clutter improvement factor 55 dB

Processing Moving target detection-IV Doppler filter bank

Weather type 6-level **Filters** 6/8/10

A/D conversion 15 bits @7.78 MHz

Antenna gain 35 dB

Polarization Linear/Circular

Azimuth beamwidth 1.4 deg

4.8 deg min (Cosecant squared) Elevation beamwidth

to +30 deg 10/12/15 rpm

Rotation rate **Features** Simultaneous target and radar data

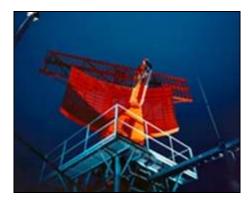
Six-level weather output (IACO-compliant) Advanced moving target detection (MTD-IV) Constant false alarm rate (CFAR) processing

Remote monitoring and control

Unattended operation Mode S compatible

Multiple interface capabilities MTD-IV Doppler Filter Bank

Processing Filters 6/8/10 Tracking capacity 1,000 targets MTBCF >37,500 hr **MTTR** <15 min 99.998% Availability



ASR-12

Source: Northrop Grumman

ASR-12

Program Review

On May 14, 2007, Northrop Grumman announced that the company had signed a licensing agreement with Indra giving Indra rights to manufacture and market Northrop Grumman's ASR-12 air traffic control radar system outside the United States.

Timetable

Month Year Major Development

May 2007 Indra signs agreement to manufacture and market the ASR-12 outside the U.S.

Contracts/Orders & Options

No recent contracts have been identified.

Worldwide Distribution/Inventories

Forecast International believes the ASR-12 has been procured by **Argentina**, **Egypt**, **El Salvador**, **Mexico**, **Peru**, and **Saudi Arabia**.

Forecast Rationale

The ASR-12 is an Airport Terminal Surveillance Radar manufactured by Northrop Grumman.

In the most recent news regarding the ASR-12, in May 2007 Northrop Grumman announced that it had entered

into an ASR-12 licensing agreement with Indra. However, no ASR-12 production is forecast.

Barring further activity, this report will be archived in August 2013.

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