

Airport Surveillance Radar Model 11 (ASR-11)

Purpose: The Federal Aviation Administration needs surveillance systems in the terminal area to provide separation services. Older terminal radar systems do not meet the air traffic requirements for coverage and capacity.

Also, these radars are obsolete, not logistically supportable, and do not provide digital inputs to the new terminal automation system. The ASR-11 is intended to replace the aging analog terminal airport surveillance models ASR-7 and ASR-8 radars with new digital radars.

BACKGROUND

Both the ASR-7 and ASR-8 are analog radars, which have inadequate weather detection capabilities by today's standards. In addition, the new Standard Terminal Automation Replacement System (STARS) will require digitized radar suitable for use in air traffic control facilities. The ASR-11 provides digital surveillance radar data and 6-level weather. The ASR-11 is a joint FAA/Department of Defense (DoD) acquisition with the United States Air Force (USAF) as the lead for the acquisition. The FAA is procuring 112 systems, and the DoD is procuring 53 systems.



KEY PROJECTS

The system consists of a primary surveillance radar (PSR), Monopulse Secondary Surveillance Radar (MSSR), Surveillance Data Translator (SDT), and a System Interface Unit (SIU).

ASR-11 testing is partitioned into three phases, each phase consisting of several test events. Phase one concentrated primarily on the PSR. Phase two consists of both the PSR and MSSR. Phase three completes DT&E testing on the ASR-11.





System Efficiency



KEY ACCOMPLISHMENTS

- Contract awarded to the Raytheon Corporation, August 8, 1996
- Formal Development Test and Evaluation (DT&E) began October 1997

STATUS

Currently, the ASR-11 is undergoing formal DT&E. Phase one DT&E is complete. Phase two DT&E is currently being conducted. Phase three DT&E is expected to begin by mid to late 1998.

PLANS

- Complete DT&E testing by March 1999
- Begin OT&E testing by April 1999

DIVISION/BRANCH RESPONSIBILITIES

ACT-310 is providing the program office engineering and technical support during DT&E.

ACT-310 is responsible for OT&E.

For additional information, contact:

Federal Aviation Administration
William J. Hughes Technical Center
Atlantic City International Airport, NJ 08405
Phone: (609) 485-5392
Fax: (609) 485-5995
www.tc.faa.gov