

Airport Surveillance Radar (ASR). FAC: 1341

CATCODE: 134376

OPR: AFFSA

OCR: AFNIC, AF/A3O, AFCEC/COS

1.1. **Description.** ASR is approach control radar used to detect and display an aircraft's position in the terminal area. It provides range and azimuth information.

1.2. **Requirements Determination.** An airfield may have an AN/GPN-12 or AN/GPN-20 fixed ASR providing medium range 110 km (60 nautical miles) radius primary radar coverage and 370 km (200 nautical miles) radius secondary radar coverage. Airfields may also have an AN/GPN-30 Digital Airport Surveillance Radar (DASR). The DASR is a new terminal air traffic control radar system that replaces current analog systems with new digital technology.

1.3. **Scope Determination.** See UFC 3-260-01. Contact OPR for further guidance on the AN/GPN-30.

1.4. **Dimensions.** See UFC 3-260-01. Contact OPR for further guidance on the AN/GPN-30.

1.5. **Design Considerations.** The AN/GPN-12 and AN/GPN-20 are provided with prefabricated shelters for housing transmitter and receiver equipment. The radar antenna is mounted on a steel tower adjacent to the shelter. The radar data is transmitted to the RAPCON operations room either by cable or microwave. Contact OPR for further design guidance on the AN/GPN-30.