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.


1.5. 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.