

Role of GPS in System Architecture of Airport Coordinate Monitoring(1)

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The Ministry of Transportation in Japan is now promoting the system of airport coordinate monitoring for satellite air navigation. Essential part of the system is continuous observation at the GPS control stations that are installed inside the airports. All the data are concentrated into two analyzing center at Haneda(Tokyo) and Kansai(Osaka) airport. Final determination of coordinates at specified epoch and rates of coordinate change are expected to be performed by the four-dimensional network adjustment.

Test observations were carried out during December 21, 1998 to March, 1999 at the Haneda air port. Data analysis indicates that coordinate changes are 10mm to west and 6mm to south and 2.5mm subsidence.