

Greenville-Spartanburg International Airport Pavement Management System



Applied Pavement Technology, Inc. (APTech), assisted by Wilbur Smith Associates, implemented an airport pavement management system (APMS) for Greenville-Spartanburg International Airport (GSP) in South Carolina. GSP serves more than 1.5 million passengers annually, is home to a 120,000 square foot FedEx facility, and has the goal of providing travelers with the safest and most efficient airport in the world.

To support safety and daily transportation functions at the GSP, APTech's efforts included a detailed historical records review of pavement information, pavement condition index (PCI) surveys, geotechnical investigation, heavy-weight falling weight deflectometer testing, and an airfield traffic study.

After conducting extensive analyses of the information about the condition, material characteristics, and structural capacity (in terms of both allowable load and PCI values) of the pavement sections, APTech estimated the remaining functional and structural life of the pavement sections. In addition to developing preliminary pavement designs and recommendations for those sections that needed rehabilitation in the next 10 years, APTech provided classroom course and field training in the PCI method. APTech provided the Airport with its interactive training CD on the airfield PCI procedure and conducted a 3-day course on the use of the MicroPAVER pavement management software.