

Missouri Statewide Airport Pavement Management System



As part of the Missouri Department of Transportation's (MoDOT's) systems planning project, Applied Pavement Technology, Inc. (APTech) implemented an airport pavement management system (APMS). The APMS permits MoDOT to proactively manage the maintenance and rehabilitation of the pavement infrastructure at Missouri airports in the most fiscally responsible manner possible. It provides MoDOT with the means to anticipate pavement-related funding needs and provides individual airports with the information needed to remain in compliance with Public Law 103-305 regarding pavement maintenance management.

In 2002, a pilot APMS project involving five airports was undertaken to demonstrate the worth of airport pavement management. It was so successful that APTech expanded the APMS to include the majority of the paved, publicly owned public-use airports in Missouri. The APMS now includes sixty-six airports.

The project included records review, network definition, pavement evaluation, MicroPAVER database development, data analysis, and report generation. In addition, APTech developed a 5-year maintenance and rehabilitation program for the airports and established an internal geographic information system link between the airport maps and the State's APMS database. Extensive training on the use of the MicroPAVER pavement management software for MoDOT staff members and representatives of Missouri airports was a key component to this implementation.

The ultimate goal of this project was to provide the airports, the State, and the Federal Aviation Administration with the pavement information and analytical tools to help them identify their needs, optimize the selection of projects and treatments over a multi-year period, and evaluate the long-term impacts of their project priorities.

