

Wichita Airport Authority Airport Pavement Management System Pavement Condition Update



In 2006, APTech was selected by the Wichita Airport Authority (WAA) to update the airport pavement management system (APMS) for Wichita Mid-Continent Airport, the largest airport in Kansas, and Colonel James Jabara Airport. Following a comprehensive records review to determine the existing pavement cross sections, APTech performed detailed pavement inspections in accordance with the pavement condition index (PCI) procedure. This information was entered into the WAA's existing MicroPAVER database.

The project included nondestructive testing using APTech's heavy-weight falling weight deflectometer (FWD). The testing focused on those pavement sections that were thought to need rehabilitation within the next 5 years, as determined during the pavement condition index surveys. APTech used the results to generate a 10-year capital improvement program, a valuable planning tool for the WAA to use when outlining the maintenance and rehabilitation projects recommended at both airports. Aerial photography and the development of digitized images of both airports were also included in this project.

As a testament to the WAA's satisfaction with the work, APTech was selected to update the APMS again in 2008. During that project, APTech updated the existing MicroPAVER database at each airport. The work included a comprehensive records review to update the work history information; detailed pavement inspections following the PCI procedure, and FWD testing on the primary runway and taxi routes, which will allow an assessment of the ability of heavy aircraft to land at Mid-Continent Airport. The results were used to generate a 10-year capital improvement program, which will serve as a valuable planning tool for WAA. The project also included aerial photography and the development of digitized images of both airports.