

Washington Statewide Airport Pavement Management System



In 2005, the Washington State Department of Transportation (WSDOT) Division of Aeronautics selected Applied Pavement Technology, Inc. (APTech) to update and expand its existing airport pavement management system (APMS). APTech, with assistance from CH2M HILL, Inc. and CivilTech, updated the APMS for the eighty-five airports already in WSDOT's APMS and expanded the database to include a total of ninety-seven paved public-use airports.

During this project, the airport pavements were evaluated using the pavement condition index (PCI) methodology and a MicroPAVER database was established. The system was calibrated to include realistic pavement cost information and pavement deterioration trends. An analysis of the collected condition data was performed to develop a multi-year pavement maintenance and rehabilitation program, and reports documenting the findings of the project were generated. APTech also provided training on the use of the MicroPAVER software to WSDOT.

Throughout the project, APTech worked in very close conjunction with the WSDOT and the Federal Aviation Administration to develop an integrated approach to preserving the pavement infrastructure and maximizing the usefulness of both state and federal expenditure. The project also emphasized outreach to airport sponsors and consultants to ensure that the findings and recommendations of this study would be understood and implemented. As part of this process, APTech conducted a series of public outreach workshops on the pavement management program study findings across Washington and at the Washington Airport Pavement Management Association Conference. A pavement management manual developed during this project was used during these workshops and provided to each airport

Throughout this process, APTech and WSDOT served as advocates of the airports but did not supplant the responsibilities and roles of the airport sponsors. The APMS process was used to identify pavement needs and recommended strategies for preserving the pavements; however, the cities and counties remain responsible for providing the key policy and financial decisions necessary for preserving airport pavements in Washington State.