

## Honolulu International Airport Pavement Management System



In 2004, Applied Pavement Technology, Inc. (APTech) updated an airport pavement management system (APMS) for the Honolulu International Airport (HNL) as part of a statewide APMS implementation for Hawaii.

The around-the-clock demand on the HNL's facilities means that any pavement closure has a significant impact on the traveling public, the airlines, the freight carriers, and the thousands of people who serve in and depend on these industries. HNL is such a vital link in the United States' transportation system that it is imperative to keep the pavements in good operational condition at all times. To assist the Hawaii Department of Transportation (DOT) with the timely detection and repair of pavement conditions that might detract from the HNL's performance, APTech conducted pavement condition index (PCI) surveys and provided other assistance in developing the APMS.

Federal Aviation Administration and Hawaii DOT funding conditions require that recipients of grants subscribe to a continuing pavement maintenance and management process to protect the long-term investment in capital airfield projects. APTech initially assisted with implementing the APMS at HNL in 1999 as a subconsultant for Fujita & Associates. In 2003, APTech conducted additional PCI surveys for HNL.

For the 2004 project, APTech worked as a subconsultant to KFC Airport, Inc. APTech's work included a records review, network definition, mapping, coring, traffic data collection, structural testing using a falling weight deflectometer, establishment of a pavement management database, data analysis, and the development of a 5-year maintenance and rehabilitation Capital Improvement Program for the airport. APTech also provided extensive training in the use of the MicroPAVER pavement management software as part of this project.