

## Edwards Air Force Base MicroPAVER Pavement Management System Update



Applied Pavement Technology, Inc. (APTech) was contracted through the Air Force Civil Engineer Support Agency to provide technical expertise for the update of a MicroPAVER pavement management system at Edwards Air Force Base (AFB) in California. The pavement management system at Edwards AFB, home to the Air Force Flight Test Center, is for the airside pavement system.

During December 2003 and January 2004, APTech developed a MicroPAVER pavement management database for Edwards AFB. After a thorough systems inventory to determine the cross section and construction history of the different pavement areas, APTech conducted an extensive pavement evaluation of all airfield pavements at Edwards AFB using the pavement condition index (PCI) procedure, implemented a MicroPAVER pavement management system, and developed a 5-year maintenance and rehabilitation (M&R) plan for the base.

APTech customized the MicroPAVER software by determining unit costs for pavement maintenance and rehabilitation (M&R) activities and developing pavement performance prediction models specific to Edwards AFB pavements. Once this task was completed, APTech evaluated several budget scenarios to assess the impact of each on the overall pavement condition over time. Overall, the pavement sections at Edwards AFB were performing well, but there were pavement sections that require major rehabilitation work within the next 5 years. In addition, APTech recommended continued maintenance and specific repairs to slow the rate of deterioration and to maintain the pavement condition to a suitable level. APTech summarized the key results from the project, such as the Pavement Condition Index and M&R plan, on color-coded maps in accordance with Air Force standards.