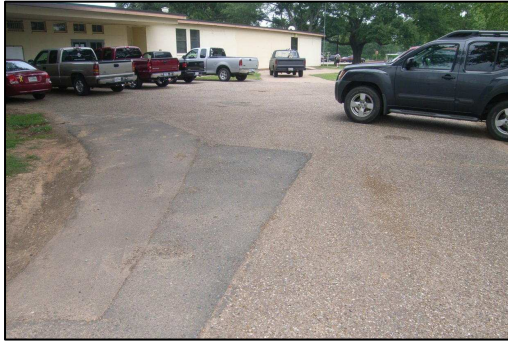


Barksdale Air Force Base MicroPAVER Pavement Management System Update



In 2006, Applied Pavement Technology, Inc. (APTech) was contracted through the Air Force Civil Engineer Support Agency for the update of a MicroPAVER pavement management system at Barksdale Air Force Base (AFB) in Louisiana. The pavement management system at Barksdale AFB, a landing site for Space Shuttle Endeavour, includes all roadway and parking lot pavements, as well as all airside pavements.

APTech conducted a thorough systems inventory to determine the cross section and construction history of the different pavement areas and used this information to divide the pavement network into management units. After APTech performed detailed pavement surveys using automated video imaging data collection equipment, the collected systems inventory and pavement condition data were entered into a MicroPAVER database.

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 Barksdale 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. To help the AFB maintain each pavement section above a specified acceptable condition over a 5-year period, APTech provided specific repair guidelines and 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.