

Pavement Management Update for the Port Authority of New York and New Jersey LaGuardia International Airport, Newark Liberty International Airport, and Teterboro Airfield



The airside and landside pavement condition analysis Applied Pavement Technology, Inc. (APTech) provided to the Port Authority of New York and New Jersey on this project outlined the current and predicted condition of pavements at Newark Liberty International Airport, LaGuardia International Airport, and Teterboro Airfield through 2014. APTech, in conjunction with Mandli Communications, updated the airport pavement management system (APMS) to allow Port Authority officials to appropriately plan for maintenance, repair, and rehabilitation work.

APTech conducted a records review focused on maintenance and rehabilitation work, performed Pavement Condition Index surveys, collected pavement condition data using automated video equipment, and interpreted the data through digital images on a computer. After converting the Port Authority's existing pavement management database to MicroPAVER, the information from the records review and pavement condition surveys were used to update the APMS database. Using MicroPAVER allows the Port Authority to use the same nonproprietary database at all of the airports that it operates.

In addition to evaluating the foreign object damage potential of shoulder and erosion pavements adjacent to specific airside pavement sections, APTech collected pavement distress and smoothness data for the APMS. The APMS helps provide advance notice for any required repairs to the pavements. During this project, APTech made certain that the database and pavement management software were properly installed and provided the necessary technical training to use the program. The final reports for the APMS updates were based on evaluation of the existing pavement and field inspection data collected.