

Columbus Regional Airport Authority Airport Pavement Management System



The Columbus Regional Airport Authority (CRAA) manages Port Columbus International Airport, Rickenbacker International Airport, and Bolton Field. These airports represent a significant capital investment and play a critical role in the economic health of the Ohio and the Midwestern United States. Port Columbus International is one of the leading airports in the Midwest transportation industry. Rickenbacker International, formerly a United States Air Force Base, is an international cargo airport and Foreign-Trade Zone. Bolton Field, a reliever for Port Columbus International, is recognized in the National Plan of Integrated Airport Systems. As these airports have aged, the upkeep of their existing pavements has become increasingly important.

In 2001, Applied Pavement Technology, Inc. (APTech) implemented an airport pavement management system (APMS) for these airports on behalf of the CRAA. During that project, APTech collected condition data for the airside and landside pavements at Port Columbus International and the landside pavements at Bolton Field. After converting an existing AIRPAV® proprietary database for Port Columbus International to a MicroPAVER database, APTech merged the MicroPAVER database developed by the Ohio Department of Transportation for the airside pavements at Bolton Field with that of Port Columbus International. The combined data were then analyzed to make recommendations to the CRAA for the maintenance and rehabilitation of the pavement infrastructure in both the short and long term. APTech provided training in the pavement condition index procedure and the use of the MicroPAVER software so that the CRAA could use the system to its fullest potential.

Due to the CRAA's satisfaction with APTech's work, APTech was retained in 2003 to update the APMS. During that project, Rickenbacker International was incorporated into the APMS. In 2006, and again in 2009, APTech was retained to update the system.