



APPLIED PAVEMENT TECHNOLOGY

providing engineering solutions to improve pavement performance

CENTRAL ILLINOIS
CHICAGO AREA
NEVADA
VERMONT

September 25, 2006

Mr. John Oswald, P.E.
Airport Engineering and Planning Manager
2173 Air Cargo Road
P.O. Box 9130
Wichita, KS 67277-0130

Re: North Air Cargo Apron Evaluation at Wichita Mid-Continent Airport
Supplement Agreement #1 to *Airport Pavement Condition Inventory Update* (dated July 18, 2006)
APTech Project No. 2006-004-AE02

Dear Mr. Oswald:

As requested, APTech has prepared a project scope and fee for evaluating the effect of parking aircraft on or near the 9-inch PCC pavement staging area located on the North Air Cargo Apron. Currently, aircraft park on the 15-inch PCC apron pavement, but the Wichita Airport Authority wishes to park the aircraft closer to the apron's east edge. The study will include the north one-third of the North Air Cargo Apron.

The work includes the following tasks:

1. *FWD Testing*: ½ day of FWD testing, consisting of approximately 50 test locations, will be performed on the apron. Testing will be performed at midslab locations on both the 9-inch and 15-inch PCC pavements. Testing will also be performed at joints on both the 9-inch and 15-inch PCC pavements and at the expansion joint between the two sections.
2. *Data Analysis*: The FWD data will be analyzed to determine the normalized deflections, pavement layer moduli, subgrade support conditions, and joint load transfer efficiencies. The data will be further analyzed to evaluate the load bearing capacity (i.e., allowable loads) of each pavement section. For the 9-inch pavement section in question, APTech will determine the consequence of loading aircraft on the 9-inch PCC pavement (i.e., the estimated life for a given aircraft weight) and, if desired, will determine the maximum allowable aircraft weight for a given number of load applications.
3. *Summary Memo*: APTech will summarize the results in a short memo, which will include a map of the area, pavement section, and will be delivered to the Wichita Airport Authority within 3 weeks.

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APTech proposes to accomplish this work for a lump sum fee of \$4,590, as summarized in the fee estimate table (see Exhibit A). The proposed fee is dependent on performing this work in conjunction with the *Airfield Pavement Condition Inventory* project.

ATTEST:

WICHITA AIRPORT AUTHORITY
WICHITA, KANSAS

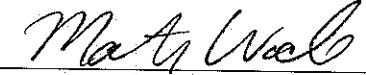
By: _____
Karen Sublett, City Clerk

By: _____
Carlos Mayans, President

Date: _____

APPLIED PAVEMENT TECHNOLOGY, INC.
115 WEST MAIN STREET
URBANA, IL 61801

By: 
David Peshkin, Vice President

By: 
Monty Wade, Program Director

Date: 9/25/06

APPROVED AS TO FORM: 
Director of Law

Date: 10/13/06

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