Reflective Cracking Daily Testing Notes

Date: January, 2013
Project: Reflective Cracking Indoor Phase 2

Temperature: N/A

Reflective Cracking Testing Notes:
The construction phase of the reflective cracking project has been completed and the testing phase began on January 24, 2013. It is estimated the testing will require 4 to 6 weeks to complete the current test cycle.
The following outlines the Reflective Cracking Instrumentation status for the January, 2013 period:
The formal full-scale test started on January 24, 2013. The control test parameters are the following:

- ✧ Joint opening: 0.012 in
- ✧ Cycle time: 150 sec loading and 600 sec rest period
- ✧ Pavement temperature: 32^{o}F

The first bottom-up reflection crack was observed on the north strip on January 24, after 750 loading cycles. It was also found that the inclusion of a rest period effectively eliminated the accumulated compressive stress at the overlay bottom which was observed during the 2012 full-scale test.

Reflective Cracking Instrumentation Status:
IO-Tech Data Aquisition System:
All the sensors on the RC test bed have been carefully configured and calibrated into Ryan's program using their corresponding slope, excitation, and voltage range values. A SensorsList channel distribution and program settings spreadsheet, as well as a SensorList location spreadsheet was generated with copies provided to the FAA and placed on the SRA server. RC-Full-Scale testing was to begin the day after the Martin Luther King Holiday, January 22, 2013, but was pushed back to January 24, 2013 because one failed surface gage had to be replaced

All SensorList inputs responded as expected when the test began on January 24, 2013.