

**Temperature:** N/A

**Reflective cracking:**

During the month of October 2010, Schaefer Electric completed the rough in electrical work for the hydraulic systems and continued work on the electrical requirements for the cooling system. United Concrete prepared and installed 1/4" teflon material to the PCC surface of the foundation. Advanced Fluid Systems used a crane to set the frame assemblies into the test area and installed the hydraulic equipment to the frame assemblies. Franklin Mechanical completed the installation of the cooling pipes and valves within the frames. They also completed the connections between the outdoor chiller unit and the frame assemblies. The cooling system was air tested and filled at the end of October. A pre-construction meeting was held to discuss the PCC design mix and miscellaneous construction details. The recommended 3/8" PCC mix design was batched on October 22<sup>nd</sup>, 2010.

**Pavement Material Property Testing:**

For purpose of asphalt evaluation for the Reflective cracking test area, a total of (24) 6" diameter cores will be taken from the HTP test area in the unheated test areas of the PG 64-22 and the PG 76-22. These cores are being sent to UIUC for material characterization.

**Reflective cracking:**

Construction details and plans will be submitted to the FAA for the supplementary study of a 12" PCC slab with 5" AC overlay. This supplementary study will be constructed adjacent to the reflective cracking test area. During the month of November, the hydraulic system will be started and examined. It is anticipated that the start-up and examination of the hydraulic system will last 3 to 4 weeks. The 7 and 28 day break results from the PCC design mix will be reviewed and submitted to the FAA. Material samples will be removed from the HTPT project and sent to UIUC for characterization and analysis.

**NAPTF data acquisition systems:**

Instrumentation was installed on the Reflective Cracking project, and the data acquisition system is being prepared for the data collection.

**Procure, install, and test pavement instrumentation sensors:**

Instrumentation was installed on the Reflective Cracking project, and the data acquisition system is being prepared for the data collection.

Assisted in the installation of foil gauges and thermisters in the high tire pressure area and concrete strain gauges in the reflective cracking frames.

**Support for specialized airport pavement research projects:**

Construction continued on the reflective cracking rig, detailed under Task Order-9.