



Progress Report 2004-3 (July-September, 2004)

Jim Grove, Center for PCC Pavement Technology

TPF-5(066) Material and Construction Optimization for Prevention of Premature Pavement Distress in PCC Pavements

Purpose of Project: To develop optimal mix design and test methods for monitoring Key performance parameters and conduct demonstration tests in participating states.
<http://www.ctre.iastate.edu/pccpoolfund/>

Progress Report:

- Project is on schedule Yes
- Project is within budget Yes, with budget revision
- Significant changes in project description No

Products and tangible results this quarter (*reports/articles written, oral reports/interviews given*):

- The Annual Report (Phase I) was completed and distributed to the TAC Committee in September, at the TAC meeting.

Interaction with Technical Monitor and/or Project Advisory Committee:

- A regular monthly teleconference with the executive committee was held on July 14 and August 11.
- Minutes from the monthly teleconferences are available on the web page.
- The fall meeting of the Technical Advisory Committee was held in Detroit, MI, on September 21. There were 23 attendees with 15 of the 16 states represented.

Brief summary of this quarter's research:

- A state visit was made to Iowa on August 26, completing the sixteenth state visit.
- The raw data from the state visits was compiled and reported in the MCO Annual Report (Phase I).
- The mobile concrete research lab was dedicated on July 6 in a ceremony held at CTRE.
- A tour of the mobile concrete lab was conducted for the Iowa Highway Research Board on July 30.
- The truck to pull the mobile lab was delivered in July.
- Conducted the Missouri Shadow project August 2-12, 2004
- Conducted the Kansas Shadow project August 30-September 9, 2004
- Conducted the Michigan Shadow project September 20-30, 2004

Expected activities for next quarter:

- Continue to work on the best practices manual with the editorial team and review the first draft.
- Conduct two demo project visits.

Work Tasks

Task	Task Description	Expected Completion	% of Task
1	Data Collection Survey of past projects which experienced problems Compile local state testing practice Gather research information	June 2004	90%
2	Test Development Develop suite of tests to measure concrete properties Define test procedures	2006	85%
3	Demonstration projects Demonstrate test procedures on participating state projects Development of protocol for sampling and testing Field verification of laboratory testing and solutions	2006	35%
4	Technology transfer Develop initial standards/guidelines (“Best Practices”) for testing Demonstrate tests and procedures Conduct technology transfer	2007	30%