



Progress Report 2005-2 (April-June)

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
Significant changes in project description	No

Interaction with Technical Monitor and/or Project Advisory Committee:

- A briefing was held with Sandra Larson, Iowa DOT, and Max Grogg, FHWA to review information about 2004 Demo Projects that would be presented at the TAC meeting.
- The spring meeting of the Technical Advisory Committee was held in Overland Park, KS on April 20th.
- Regular monthly teleconference with the executive committee was held on May 11.

Brief summary of this quarter's research:

- The research team met with Gary Fick on April 18 to review the progress of 2004 lab testing, 2004 field test data, and a detailed testing plan for the 2005 field shadow projects.
- The Texas shadow project was conducted April 24-May 6, 2005.
- The Iowa shadow project was conducted June 6-17, 2005.
- The North Dakota shadow project was conducted June 21-28, 2005
- Completed final draft of the IMCP manual by the editor.
- Review final IMCP Manual by the research staff.

Expected activities for next quarter:

- Conduct at least one shadow project.
- Continue lab testing of materials from completed shadow projects.
- Complete review and final layout of the IMCP Manual and send it to be printed.
- Begin analysis of the data from the field test results to date.

	Task Description	Expected Completion	% of Task
1	Data Collection Survey of past projects which experienced problems Compile local state testing practice Gather research information	August 2005	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	50%

4	Technology transfer Develop initial standards/guidelines (“Best Practices”) Demonstrate tests and procedures Conduct technology transfer	2007	40%
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**COOPERATIVE AGREEMENT NO. DTFH61-01-X-00042: Project No. 18
 MATERIALS AND CONSTRUCTION OPTIMIZATION**

DATA FOR THE QUARTER ENDING JUNE 30, 2005

BUDGET CATEGORY DESCRIPTION	AMOUNT BUDGETED	EXPENDITURES THIS PERIOD	CUMULATIVE EXPENDITURES
SALARIES/WAGES	\$172,275.00	\$32,819.84	\$102,985.84
BENEFITS	\$57,762.00	\$8,996.77	\$29,242.34
TRAVEL	\$83,756.00	\$4,277.88	\$17,896.52
SUPPLIES/MATERIALS	\$1,300.00	\$71.99	\$140.59
OTHER DIRECT COSTS	\$42,277.00	\$10,457.75	\$23,301.93
TOTAL DIRECT COSTS	\$357,370.00	\$56,624.23	\$173,567.22
INDIRECT COSTS (University Overhead)	\$92,916.00	\$15,534.19	\$45,939.36
CATEGORY TOTALS	\$450,286.00	\$72,158.42	\$219,506.58

NOTES:

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