



Progress Report 2003-2

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:

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| • Project is on schedule | Yes |
| • Project is within budget | Yes |
| • Significant changes in project description | No |

Problems (*current or anticipated*): No significant problems encountered.

- More time was needed to develop the data collection form and get it onto the web site than was anticipated.
- State visits have not begun because the information was not received as early as anticipated but the visits should be finished this fall as anticipated.

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

- The data collect form was finished, posted on a web site, and some data has been received.
- The web site has been updated with a new format and updated materials, including minutes, quarterly reports, and future dates for meeting and conference calls.
- A draft of the Administrative Procedures was prepared and is being reviewed by the Executive Committee.
- Test procedures are being evaluated for many of the tests in the suite of tests.

Interaction with Technical Monitor and/or Project Advisory Committee (*brief recount of meetings*):

- Conference calls with the Executive Committee were held on May 20 and June 12.
- A meeting of the Technical Advisory committee was held on April 9 in Chicago.
- Coordination meetings were also held with the Sandra Larson, the Iowa DOT lead state administrative manager on April 24, May 22, and June 23.

Brief summary of this quarter's research:

- Test evaluation of the tests listed in the preliminary matrix of tests for various concrete performance characteristics was begun.
- Contact was made and continues with Leif Wathne, FHWA, regarding donating a used trailer that could be used as a mobile concrete laboratory to support the demonstration project fieldwork.
- The web site was revised and updated to include the minutes and other documents that have become available.
- The data collection form was completed and sent to each state representative. Three states had submitted information by the end of the quarter.
- The focus of the Practice Manual is being finalized.
- Began preparing a budget for the activities of each of the project tasks

Expected activities for next quarter:

- Finish development of the Administrative Procedures Manual for conduct of the project.
- Receive the survey of problem projects information from the remaining participating state.
- Continue evaluation of tests and procedures.
- Begin visits to states to gather problem project information as identified on the survey, local test procedures and input for project development.
- Begin planning and organizing the first field demonstration project, to be constructed in Iowa
- A subcontract will be executed to develop a Practices Manual.
- Finish budgeting for each task.
- Prepare progress information and organize the next TAC meeting, to be held on October 14.

Work Progress by Task:

Task #	Task Description	Expected Completion Date	% of Task Completed
1	<p>Data Collection</p> <ul style="list-style-type: none"> ▪ Survey of past projects which experienced problems ▪ Compile local state testing practice 	September 2003	10%
2	<p>Test Development</p> <ul style="list-style-type: none"> ▪ Develop suite of tests to measure concrete properties ▪ Define test procedures 	2006	25%
3	<p>Demonstration projects</p> <ul style="list-style-type: none"> ▪ Demonstrate test procedures on participating state projects ▪ Development of protocol for sampling and testing ▪ Field verification of laboratory testing and solutions 	2006	0%
4	<p>Technology transfer</p> <ul style="list-style-type: none"> ▪ Develop initial standards/guidelines (“Best Practices”) for testing ▪ Demonstrate tests and procedures ▪ Conduct technology transfer 	2007	5%