

## State Planning and Research Program Quarterly Report

**PROJECT TITLE:**

TPF-5 (132) Investigation of Low Temperature Cracking in Asphalt Pavements - Phase II (MnROAD Study)

**OBJECTIVES:** The main objective of this study is to validate the laboratory test procedures, models, and pavement design procedures that come out of Phase I of this study. This will be accomplished by monitoring two new test sections at the Minnesota Road Research Facility (MnROAD). Phase I was aimed at developing a fracture mechanics-based specification for a better selection of asphalt binders and mixtures with respect to their resistance to crack formation and propagation. This fracture mechanics approach will also be used to investigate the detrimental effects of aging and moisture on the fracture resistance of asphalt materials.

**PERIOD COVERED:**

October 1, 2008 – December 31, 2008

**PARTICIPATING AGENCIES:**

CT, IA, MN, ND, NY, WI, LRRB

**PROJECT MANAGER:**

Benjamin Worel

**SP&R PROJECT NO:**

TPF-5 (132)

**PROJECT IS:**

Planning  
 Research &  
Development

**LEAD AGENCY:**

Mn/DOT

**PRINCIPAL INVESTIGATOR:**

TBD by TAP

**ANNUAL BUDGET:**

\$525,000 Total Funding =  
\$475K Contract + 26K Admin (meetings) +  
24K Admin (Agency Discretion)

**PROJECT EXPENDITURES TO DATE:**

- First State Meeting held March 11, 2008 (Travel expenses from CT, ND, NY, WI were processed)
- No other expenses

**WORK COMPLETED:**

- 1 - December 2007 - Project was just work plan developed and approved
- 2 - March 11, 2008 Agency Kickoff meeting held in Minnesota
- 3 – June 17, 2008 - Contract finalized between University of Minnesota and Mn/DOT – work starts. University of Minnesota has subcontract with Iowa State and working on the other two universities.
- 4 – MnROAD Test cells are completed on the mainline for this study.
- 5 – See the University Report following this cover sheet for individual task completions. To date no tasks have been fully completed and approved.

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

1. Contractors will work this quarter and get started on their tasks.
2. State meeting planned for Minneapolis Thursday, March 19<sup>th</sup> AAPT meeting in Minneapolis. Will ask Mihai to setup meeting details and agenda.

**STATUS AND COMPLETION DATES:**

1. Contract is posted on the pooled fund web site. The contractor will follow the schedule posted.