

**State Planning and Research Program  
Quarterly Report**

**PROJECT TITLE:** Design and Construction Guidelines for Thermally Insulated Concrete Pavements

**OBJECTIVES:**

The main objective of the proposed research is to develop design and construction guidelines for thermally insulated concrete pavements (TICP), i.e. composite thin HMA overlays of new or structurally sound existing PCC pavements. A secondary objective is to develop recommendations for feasibility analysis of newly constructed TICP or thin overlays of the existing concrete pavements.

**PERIOD COVERED:** July - September, 2007 (3<sup>rd</sup> Quarter)

**PARTICIPATING AGENCIES:** Minnesota Department Of Transportation, Caltrans, Federal Highway Administration, Local Road Research Board, Washington State Department of Transportation

**PROJECT MANAGER:**

Tim Clyne

**SP&R PROJECT NO:**

TPF 5(149)

**PROJECT IS:**

         Planning  
  X   Research & Development

**LEAD AGENCY:**

Minnesota Dept. of Transportation

**PRINCIPAL INVESTIGATOR:**

pending

**ANNUAL BUDGET:**

The total project budget is \$455,000. Of that \$16,000 is reserved for pooled fund administrative costs, which leaves \$439,000 available for research.

Detailed expenditures will be available next quarter.

**PROJECT EXPENDITURES TO DATE:** Travel Costs for designated state representative for the September 12 TAP meeting held in Minnesota: \$1636.

**WORK COMPLETED:**

A TAP meeting was held at MnROAD September 12<sup>th</sup>. We discussed the workplan in detail. A draft workplan was set forth from the University of Minnesota and their two subcontractors (University of California Pavement Research Center and University of Washington).

The MnROAD test cell designs related to this project have been finalized. The instrumentation, lab testing, and monitoring plans are being developed.

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

A revised, detailed workplan will be finalized, and the research contract is expected to get underway with 3 University contractors. MnROAD will place an HMA overlay on an existing concrete cell to measure temperature profiles.

**STATUS AND COMPLETION DATE:**

This project is just getting underway, with completion expected by June 30, 2011.