

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: _____ 9-27-2012 _____

Lead Agency (FHWA or State DOT): _____ Indiana DOT _____

INSTRUCTIONS:

Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

Transportation Pooled Fund Program Project # <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> TPF-5(021)	Transportation Pooled Fund Program - Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input checked="" type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: North Central Superpave Center Base Funding		
Name of Project Manager(s): Tommy Nantung	Phone Number: 765/463-2532 x 248	E-Mail: tnantung@indot.in.gov
Lead Agency Project ID: TPF-5(021)	Other Project ID (i.e., contract #):	Project Start Date: October 1, 2002
Original Project End Date:	Current Project End Date:	Number of Extensions:

Project schedule status:

On schedule
 On revised schedule
 Ahead of schedule
 Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
Continuing		Continuing

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
		25%

Project Description:

The North Central Superpave Center began on July 1, 1995, as one of five regional centers established to assist the states/provinces and industry in the region with the implementation of the Superpave mix design system for hot mix asphalt. The role of the NCSC has evolved to include all general hot mix asphalt issues as states in the region have adopted Superpave. The Center is administered through the Joint Transportation Research Program at Purdue University and is guided by a Steering Committee consisting of representatives of the agencies and industry in the participating states. Progress is reported below in terms of the major areas of activity as directed/approved by the Steering Committee.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

Progress will be reported in terms of the major activities planned for this project as established by the Steering Committee.

Training: No training was planned for this quarter.

Communication: Routine updates were made to the NCSC website. Approximately 25 requests for information on a variety of topics from around the region and beyond were received and responded to via phone and email. The contract issue with Auburn University were finally resolved and a conference call was held to discuss the next issue of the joint newsletter and writing assignments were made. One article has been received for the issue which will be published in the next quarter.

Third Party Lab and Testing Services: Friction testing of various pavement marking materials continued this quarter. Work continued on proficiency testing and maintenance of AMRL accreditation records. At the end of the quarter, the NCSC was contacted by a consultant about providing mixture testing for a new project, which may begin in a few months.

Research: Work continued on projects entitled *Optimizing Laboratory Mixture Design as it Relates to Field Compaction in Order to Improve Hot-Mix Asphalt Durability*. A SAC meeting was held for *Investigating the Feasibility of Integrating Pavement Friction and Texture Depth Data in Modeling for INDOT Pavement Management System* and the draft final report is nearing completion. Work also continued on *Risk Management of Low Void Content Asphalt Mixtures* and the draft final report is underway. A paper based on this project was presented at the APT2012 Conference in Davis, CA. Work continued on Task 3 of *Hot Mix Asphalt Surface Characteristics Related to Ride, Texture, Friction, Noise and Durability* for the Minnesota DOT. The NCSC was selected to perform NCHRP Synthesis 44-04 on *Pavement Patching Practices*, which will begin October 1. A proposal is being developed for an Indiana study on *Analysis of the MSCR Asphalt Binder Test and Specifications for Use in Indiana*.

Technology Transfer: The NCSC staff continued planning of the 2013 North Central Asphalt User Producer Group (NCAUPG) Annual Technical Conference, which will be held in St Louis in January 2013. The Technical Director participated in the final meetings of the Recycled Asphalt Pavement Expert Task Group and the Warm Mix Technical Working Group. She also participated in the invitation-only meeting to update the National Asphalt Research Roadmap.

Anticipated work next quarter:

Training: No training is currently planned.

Communication: The newsletter will be published.

Third Party Lab and Testing Services: Third party testing will continue on the pavement marking materials and other testing will be performed as needed.

Work will continue as planned on the research projects. New research needs will be identified and proposals prepared as appropriate.

Technology Transfer: Work will continue on planning the 2013 NCAUPG conference. The Technical Director will

Deliver keynote speeches at the South American Asphalt Pavement Conference and the Rhode Island Transportation Forum. She will chair meetings of the Association of Asphalt Paving Technologists Board of Directors and the Long Term Pavement Performance Program (LTPP) Expert Task Group on Special Activities. She will also participate in a meeting of the newly formed LTPP Warm Mix Asphalt ETG, make a presentation at the Missouri Asphalt Paving Conference and attend (as liaison) the meeting of the Long Term Pavement Performance Committee.

Significant Results:

The study on *Investigating the Feasibility of Integrating Pavement Friction and Texture Depth Data in Modeling for INDOT Pavement Management System* will conclude that it is not feasible to use texture as a surrogate for friction testing with the currently available equipment and data. Potential advances in technology and better consolidation of materials and pavement performance data may make such a substitution possible in the future, but at the current time it is not possible to capture the important contributions of microtexture to friction. This reduces the number of possible alternatives INDOT needs to consider for implementation.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).

A small staff and difficulties in finding qualified graduate students interested in asphalt make completion of some of the work quite challenging.

Potential Implementation:

Research results are considered individually for possible implementation by the states as they become available. Some specification changes have already been made based on recent research projects at the NCSC.