

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: _____ 4-7-2014 _____

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 checked="" type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input 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

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. Training will be developed and provided to participating states and other groups upon request..

Communication: The publication of the next joint newsletter has been delayed because of personal commitments of the Main contact with the Southeast Superpave Center. The technical director will attempt to publish the newsletter electronically by April 30, provided requested articles are received in April. Information requests are processed as they arrive; about 20-25 per month are received. Major updates to the website and hosted sites (Multi-Regional Training and Certification Group (M-TRAC) and Combined State Binder Group (CSBG) were also posted.

Third Party Lab and Testing Services: Work continued on proficiency testing and maintenance of AMRL accreditation records. Samples of two potential new aggregate sources were received this quarter; testing of one was completed and testing of the second is underway. Samples of RAP and of four mixtures containing RAP were received late this quarter; characterization of the extracted binders will be completed next quarter.

Research: Work continued on the project entitled *Optimizing Laboratory Mixture Design as it Relates to Field Compaction in Order to Improve Hot-Mix Asphalt Durability*, including testing of materials from a field test section. A six-month expansion was approved to allow time for more testing and short-term monitoring of the field test section.

The final report for *Hot Mix Asphalt Surface Characteristics Related to Ride, Texture, Friction, Noise and Durability*, sponsored by the Minnesota DOT, was published by the University of Minnesota this quarter.

The final report on NCHRP Synthesis 44-04 on *Pavement Patching Practices*, is in the publication process and will be published by NCHRP this quarter.

A survey for another NCHRP Synthesis study, 45-15, *Fiber Additives in Asphalt Mixtures* was distributed this quarter and 47 responses have been received to date. The literature review and solicitation of additional survey responses will continue this quarter.

Work continued on a study for INDOT entitled *Analysis of the MSCR Asphalt Binder Test and Specifications for Use in Indiana*. Eight binders have been tested to date and previously collected data from Indiana DOT has been analyzed. Additional binders will be requested and tested and mixture testing will begin after a Study Advisory Committee meeting is held in May.

A new study on *Performance of Warranted Asphalt Pavements* was approved by INDOT last quarter but a student has not yet been found to work on the project. Plans were made to have a visiting scholar assist with the project this summer. NCSC staff have identified the locations of previous warranty contracts that will be evaluated under this study.

NCSC staff has joined a team proposing an innovative power source for transportation for possible NSF funding.

Technology Transfer: The 2014 North Central Asphalt User Producer Group (NCAUPG) Annual Technical Conference was held in Kansas City, MO. Work is underway to plan the next meeting, to be held in Illinois in December. The technical director sent two presentations to Albuquerque for the New Mexico Transportation Conference but was unable to attend in person when flights were cancelled due to weather. She also made three presentations at TRB and participated in the Association of Asphalt Paving Technologists as a member of the Board of Directors.

Anticipated work next quarter:

Training: No training is currently planned.

Communication: Updates to the NCSC and NCAUPG websites will be posted. Information requests will be answered as received. The newsletter will be published electronically.

Third Party Lab and Testing Services: Third party testing will be performed as needed and as described above. Work will continue on maintaining the AMRL accreditation.

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

Technology Transfer: The NCSC staff will explore the possibility of scheduling state visits with states in the region to learn of their top issues regarding asphalt mixtures and pavements and to acquaint DOT staff with the Superpave Center and its resources. The technical director will participate in the mid-year meeting of the TRB committee on General Issues in Asphalt Technology, the Long Term Pavement Performance (LTPP) Special Activities Expert Task Group and The LTPP Oversight Committee.

Significant Results:

Readership reports for the published research reports show that they have been downloaded over 4000 times.

Over 100 people participated in the NCAUPG Asphalt Technical Conference.

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).

No problems this quarter other than getting newsletter articles from contributors and lack of an interested graduate Student to work on the new Warranty project..

Potential Implementation:

Research results are considered individually for possible implementation by the states as they become available. There is great interest across the country in the study on optimizing compaction and on past recycling research, which is leading to numerous speaking engagements, which serve to spread the results to a broader audience.