

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: _____ 7-5-2016 _____

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 checked="" 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 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: The NCSC and INDOT hosted a training workshop on the dynamic shear rheometer by Anton Paar in April that was attended by about 20 people. Training will be developed and provided to participating states and other groups upon request. A proposal was submitted to develop a comprehensive training program for a laboratory testing firm in response to the firm's request.

Communication: Information requests are processed as they arrive; about 20-25 per month are received. Updates to the website and hosted sites (Multi-Regional Training and Certification Group (M-TRAC) and Combined State Binder Group (CSBG) were also posted. Published reports have now been downloaded from the Joint Transportation Research Program website over 8300 times.

Third Party Lab and Testing Services: Work continued on proficiency testing and maintenance of AMRL accreditation records.

Research: The study *Performance of Warranted Asphalt Pavements* was completed. The final report was revised in Response to comments from the Study Advisory Committee and we are awaiting final approval of the revised report.

Work continued on the study *Tack Coat Installation Performance Guidelines*. Testing of samples fabricated in the lab from plant-produced intermediate and surface mixes is on-going. A section of pavement at the INDOT Office of Research and Development was milled and the texture tested. Cores will be taken from the milled surface in early July. Concrete cylinders were cast and will be ready for testing in mid-July.

The Technical Director participated in the Materials Peer Group meeting with INDOT in April.

A proposal was prepared last quarter for an industry-supported project to develop a method to determine the fiber content in fiberized crack sealing material; the sponsor is seeking funding support for the project. Another proposal was submitted to an industry group to study trench backfill for concrete and asphalt pavements. Three proposals are in progress for potential funding by INDOT.

Technology Transfer: The Technical Director participated in a workshop for the Virginia Department of Transportation where she gave a presentation on Superpave5, the results of the study on *Optimizing Laboratory Mixture Design as it Relates to Field Compaction in Order to Improve Hot-Mix Asphalt Durability*. VDOT is exploring options to increase the durability of their mixtures. She also participated in meetings of ASTM International on Road and Paving Materials.

Anticipated work next quarter:

Training: No training is currently planned but a proposal is under review by the sponsor to develop a comprehensive training program for the testing lab mentioned above.

Communication: Updates to the NCSC and NCAUPG websites will be posted. Information requests will be answered as received. The third regional forum will be held.

Third Party Lab and Testing Services: Third party testing will be performed as needed. 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 attempt to schedule state visits throughout the region to learn of their top issues regarding asphalt mixtures and pavements and to reacquaint DOT staff with the Superpave Center and its resources. Based on the findings, proposals for pooled fund research and/or funding requests will be developed. A third regional forum will be scheduled.

Significant Results:

Readership reports for the published research reports show that they have been downloaded over 8300 times.

An increase in third party testing requests demonstrates the value of AMRL accreditation of the lab and represents an increasing funding source.

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 major new problems this quarter.

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. The NCHRP synthesis on Fiber Additives addresses a current need since fibers are again being marketed to states and interest in their use is growing. INDOT is planning to implement the findings of the study on the MSCR test and specification.