

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: _____ 9-4-2018 _____

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 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: Discussions continued about providing more Superpave training to Manitoba Infrastructure, but due to budget cuts in Manitoba, this was postponed.

Communication: Information requests are processed as they arrive; about 20-25 per month are received. Some website glitches NCSC website and hosted sites (Multi-Regional Training and Certification Group (M-TRAC) and Combined State Binder Group (CSBG) have all been resolved. Published reports have now been downloaded from the Joint Transportation Research Program website over 10,200 times.

Third Party Lab and Testing Services: Work continued on proficiency testing and maintenance of AMRL accreditation records. A recharge center was finally established at Purdue, which will make billing for third party work easier. Testing on an aggregate source being considered as a polish resistant aggregate was completed.

Research:

Work continued on the study *Tack Coat Installation Performance Guidelines*. A Study Advisory Committee (SAC) meeting was held in March at which time the SAC verbally approved submitting an implementation proposal to take advantage of five planned construction projects using a spray paver. The draft final report is being prepared while some remaining testing is underway.

Testing was completed on an industry-supported project on *Determining the Fiber Content in Crack Sealing*. The basis of a test method was presented to the ASTM subcommittee on joint sealants, which expressed interest in developing an ASTM standard. A report and draft test method are being written.

Work continued on *Development of a Friction Performance Test for Compacted Asphalt Mixtures*. A SAC meeting was held and project materials to test were selected. A former graduate student, now professor at the Warsaw Technical University, who developed the original slab testing method, is working at the NCSC for the next six months as a visiting Scholar. He will assist with this study.

Testing of samples for *Investigation of Delta T_c for Implementation in Indiana* continued based on the Study Advisory Committee recommendations from a meeting held in March. An additional analysis technique is being applied to the data collected to date. Remaining testing will be completed and work on the draft final report will begin soon.

Survey responses and the literature review have been analyzed for *Best Practices for Patching Composite Pavements*. The results of the survey and kit review were written up in an interim report at the end of the quarter. Contact was made with an INDOT engineer who will be working on this issue regarding collaborating.

A new project, *Real Life Experiences with Major Pavement Types*, was approved. A study kick-off meeting was held in February.

The contract for an NCHRP Synthesis study on asphalt pavement lift thicknesses was signed and work began. Surveys were prepared and distributed to US and Canadian highway agencies and industry. Work began on the literature review.

Technology Transfer: A survey was prepared and sent to the North Central Asphalt User Producer Group mailing list to

gauge interest and topics for future meetings of the group; survey responses are now coming in. The Technical Director participated in the TRB Annual Meeting as chair of the Asphalt Section and of the Association of Asphalt Paving Technologists as co-editor in chief of the AAPT Journal. She also accepted appointment to the FHWA Committee to Review the Long Term Infrastructure Program (LTIP) as a member and as chair of the LTIP Expert Task Group on Pavements. Her two-year term as chair of ASTM International's Committee on Road and Paving Materials began January 1.

Anticipated work next quarter:

Training: Training will be developed and provided as requested.

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

Third Party Lab and Testing Services: Work will continue on maintaining the AMRL accreditation and third party testing as requested.

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 10,200 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).

Delays in getting the recharge center established have slowed billing for testing work completed in the last two years, which is inconvenient for our customers.

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. INDOT is constructing another trial of so-called Superpave5 based on a completed project and is pursuing reinstating an asphalt warranty program based on results of another.