

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: _____ 1-31-2014 _____

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.

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

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. We are discussing the possibility of training in Missouri this year.

Communication: The next joint newsletter with the Southeast Superpave Center was planned out last quarter; requested articles were due December 1 but none have been received despite multiple attempts. The newsletter will be published electronically next quarter with or without the contributions from SESC. Information requests are processed as they arrive; 20-25 per month are received. Routine updates to the website were also posted.

Third Party Lab and Testing Services: Work continued on proficiency testing and maintenance of AMRL accreditation records. After participating in a round robin at NCAT in July, staff learned that our dynamic friction tester and circular track meter needed service and calibration, so the equipment was delivered to a service technician in Chicago. The equipment was returned in late December and testing began on a thermoplastic pavement marking material. That testing will be completed and a potential new aggregate source will be tested next quarter. The NCSC performed bond testing of tack coat for the Michigan DOT this quarter.

Research: Work continued on projects 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. The draft final report was written and presented to the Study Advisory Committee, which recommended requesting a six-month expansion to perform more testing and short-term monitoring of the field test section. The expansion will be presented to JTRP early next quarter.

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

Comments on NCHRP Synthesis 44-04 on *Pavement Patching Practices*, were received in later December. Minor revisions will be made early next quarter and the report will be published by NCHRP by Spring.

The NCSC bid successfully on another NCHRP Synthesis study, 45-15, *Fiber Additives in Asphalt Mixtures*. Work began in November on the literature review and draft survey. The survey will be distributed early next quarter.

Work began on a study for INDOT entitled *Analysis of the MSCR Asphalt Binder Test and Specifications for Use in Indiana* in September. A new DSR was ordered and received, the graduate student was trained on binder testing and binder samples were obtained from Missouri and Indiana. Testing is underway.

A new study on Performance of Warranted Asphalt Pavements was approved by INDOT this quarter. Work will begin in January.

Technology Transfer: Work continued on planning the 2014 North Central Asphalt User Producer Group (NCAUPG) Annual Technical Conference. The technical director made presentations at Arizona Pavement Materials Conference and the Missouri Asphalt Conference.

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 facilitate and make presentations at the North Central Asphalt User Producer G Asphalt Technical Conference in Kansas City in February. The technical director will participate in the meeting of the Board of the Association of Asphalt Paving Technologists (as immediate past president) in Atlanta in March. She will also Make TRB presentations (two committee and one session) on results of the past Local Aggregates study, the ongoing Optimizing Compaction study and the Patching Synthesis.

Significant Results:

Readership reports for the published research reports show that they have been downloaded nearly 3500 times.

Registrations are pouring in for the upcoming NCAUPG Asphalt Technical Conference.

The Minnesota DOT expressed satisfaction with the final report on the Surface Characteristics study, which resulted in two models to predict on-board sound intensity based on pavement characteristics.

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.

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.