

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: \_\_\_\_\_ 5-1-2013 \_\_\_\_\_

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.*

<b>Transportation Pooled Fund Program Project #</b> <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i>  TPF-5(021)	<b>Transportation Pooled Fund Program - Report Period:</b> <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)	
<b>Project Title:</b> North Central Superpave Center Base Funding		
<b>Name of Project Manager(s):</b> Tommy Nantung	<b>Phone Number:</b> 765/463-2532 x 248	<b>E-Mail:</b> tnantung@indot.in.gov
<b>Lead Agency Project ID:</b> TPF-5(021)	<b>Other Project ID (i.e., contract #):</b>	<b>Project Start Date:</b> October 1, 2002
<b>Original Project End Date:</b>	<b>Current Project End Date:</b>	<b>Number of Extensions:</b>

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.

Communication: The joint newsletter with Auburn University was published this quarter. The NCSC will be switching to Electronic only distribution for future newsletters, so efforts are underway to update the database of email addresses. Information requests are processed as they arrive; about 20-25 per month are received. Routine updates to the website were also posted.

Third Party Lab and Testing Services: Friction testing of an aggregate being tested as a polish resistant aggregate for the Indiana DOT was completed this quarter. Work continued on proficiency testing and maintenance of AMRL accreditation records. Samples of RAP and plant-produced mixtures with RAP were received for testing and that work is underway.

Research: Work continued on projects entitled *Optimizing Laboratory Mixture Design as it Relates to Field Compaction in Order to Improve Hot-Mix Asphalt Durability*. The final report for *Investigating the Feasibility of Integrating Pavement Friction and Texture Depth Data in Modeling for INDOT Pavement Management System* was accepted and published. Work continued on *Risk Management of Low Void Content Asphalt Mixtures* and the draft final report is nearing completion. The Task 3 report for *Hot Mix Asphalt Surface Characteristics Related to Ride, Texture, Friction, Noise and Durability* was submitted to the Minnesota DOT. Work on NCHRP Synthesis 44-04 on *Pavement Patching Practices* continued; major progress was made on the literature review and US and international responses to the surveys are coming in. Staff members participated in the Indiana DOT focus group meetings to propose new research.

Technology Transfer: The NCSC staff hosted the 2013 North Central Asphalt User Producer Group (NCAUPG) Annual Technical Conference in St Louis in January 2013. The Technical Director participated in a blue ribbon panel to review the USDOT's Strategic Research Plan in February. She also gave two presentations at the Rocky Mountain Asphalt and Equipment Show in Denver and a presentation at the Minnesota Asphalt Paving Conference in March. Also in March, she chaired the annual meeting of the Association of Asphalt Paving Technologists as president.

**Anticipated work next quarter:**

Training: No training is currently planned.

Communication: Updates to the NCSC and NCAUPG websites will be posted.

Third Party Lab and Testing Services: Third party testing will continue on the RAP materials and polish resistant aggregates, 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: The Technical Director will make a presentation at the meeting of the Transportation Research Board's Committee on General Issues in Asphalt Technology, participate in the summer meeting of ASTM Committee

D04 on Road and Paving Materials (as vice chair), participate in a train-the-trainer session on Warm Mix Asphalt, chair the meeting of the Long Term Pavement Performance (LTPP) Committee on Special Activities and participate in the meeting of the LTPP Oversight Committee.

**Significant Results:**

Through the newsletter and technology transfer activities this quarter, the NCSC shared research findings and experience with over 2000 people across the US and beyond. Most of the presentations given addressed recycling and sustainability issues.

The new Indiana Test Method to pre-screen aggregates for use in asphalt surfaces was implemented this quarter.

**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. The new Indiana Test Method for screening aggregates for asphalt surfaces was shared with other states in the region at the North Central Asphalt User Producer Group meeting.