

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: _____ 2-4-2013 _____

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.

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| 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 type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input checked="" 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 | Participants contributions | 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 |
|--|---|---------------------------------------|
| Participants contributions | Participants contributions | 25% |

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: After contract delays with Auburn University, publication of the joint newsletter has resumed. Articles were received and the newsletters were 95% complete; they will be published early in the next quarter. 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 various pavement marking materials was completed this quarter. Work continued on proficiency testing and maintenance of AMRL accreditation records. Samples of hot mix asphalt materials were received for friction testing, which will begin next quarter; this testing is in response to a new Indiana Test Method to pre-screen aggregates for their frictional performance based on research at the NCSC.

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 draft final report for *Investigating the Feasibility of Integrating Pavement Friction and Texture Depth Data in Modeling for INDOT Pavement Management System* was submitted. Work continued on *Risk Management of Low Void Content Asphalt Mixtures* and the draft final report is nearing completion. Work continued on Task 3 of *Hot Mix Asphalt Surface Characteristics Related to Ride, Texture, Friction, Noise and Durability* for the Minnesota DOT. Work on NCHRP Synthesis 44-04 on *Pavement Patching Practices* began in October. Proposals were written and submitted for an NCHRP project on WMA and another is being developed for an Indiana study on *Analysis of the MSCR Asphalt Binder Test and Specifications for Use in Indiana*.

Technology Transfer: The NCSC staff continued planning of the 2013 North Central Asphalt User Producer Group (NCAUPG) Annual Technical Conference, which will be held in St Louis in January 2013. The Technical Director participated in an International Society for Asphalt Pavements conference and Brazilian Asphalt Association conference in Fortaleza, Brazil, in October; led the Long Term Pavement Performance Expert Task Group on special Activities meeting and the Association of Asphalt Paving Technologists board meeting in October; and delivered a keynote speech at the Rhode Island Transportation Forum in October. In November, she participated in the first meeting of the LTPP Warm Mix Asphalt project panel and delivered a presentation at the Industrial Materials Conference. In December, she gave a presentation at the Missouri Asphalt Conference. She was also invited to participate in a review of the US Department of Transportation's Strategic Research Plan, which will occur in February. A webinar, sponsored by the National Asphalt Pavement Association, was given focusing on the results of FHWA and Indiana DOT funded research projects on recycled hot mix asphalt in collaboration with Matt Beeson from the Indiana DOT.

Anticipated work next quarter:

Training: No training is currently planned.

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

Third Party Lab and Testing Services: Third party testing will continue on the hot mix materials 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 2013 NCAUPG conference will be held and presentations will be posted on the website. The Technical Director will participate in the USDOT Strategic Research Plan review and will make presentations at the Rocky Mountain Asphalt Conference and the 57th Annual Asphalt Contractors' Workshop in Minnesota.

Significant Results:

Through the technology transfer activities this quarter, the NCSC shared research findings and experience with over 1500 people across the US and beyond. Most of the presentations given addressed recycling and sustainability issues.

A new Indiana Test Method to pre-screen aggregates for use in asphalt surfaces was adopted this quarter and materials were received for the first tests using the new method.

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 will be shared with other states in the region at the upcoming North Central Asphalt User Producer Group meeting.