

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): IOWA 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 # TPF-5(286)	Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2016) X Quarter 2 (April 1 – June 30, 2016) Quarter 3 (July 1 – September 30, 2016) Quarter 4 (October 4 – December 31, 2016)	
Project Title: Next Generation Concrete Pavement Road Map		
Project Manager: Brian Worrel	Phone: 239-1471	E-mail: brian.worrel@dot.iowa.gov
Project Investigator: Peter Taylor	Phone: 294-9333	E-mail: ptaylor@iastate.edu
Lead Agency Project ID: RT	Other Project ID (i.e., contract #): Addendum 482	Project Start Date: 9/15/13
Original Project End Date:	Project End Date: 9/14/18	Number of Extensions: Pooled fund project – yearly budgets

☒ On schedule
 ☐ On revised schedule
 ☐ Ahead of schedule
 ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Total Percentage of Work Completed
\$635,000	\$344,642.77	N/A

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$20,382.59	N/A	N/A

Project Description:

This pooled fund project will carry on the work started by FHWA's initial Concrete Pavement Road Map Pooled Fund, TPF-5(185) and continue the effort to identify and prioritize needed research but will have a stronger focus on supporting the sponsoring states with technology deployment activities so that advancements in technologies can be implemented into practice.

Increasingly, state departments of transportation (DOTs) are challenged to design and build longer life concrete pavements that result in a higher level of user satisfaction for the public with fewer resources. One of the strategies for achieving longer life pavements is to foster new technologies and practices. Experts from state DOTs, FHWA, academia and industry must collaborate to identify and examine new concrete pavement research initiatives. The purpose of this pooled fund project is to identify concrete research, training and technology transfer needs through the CP Road Map.

Work under this task order relates to tasks 1 through 4.

1. Provide training workshops and/or webinars for each participating state on a topic of interest.
2. Develop specifications for new technologies
3. Maintain a database addressing research gaps
4. Conduct quarterly TAC

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**E- News, Map Briefs, Training and Data Base**

- Investigate recent concrete pavement related research for inclusion in the database.
- The May E-News newsletter summarized a NCC survey regarding discharge time limits for non-agitating trucks. In addition, recent research on fiber-reinforced concrete for new highway pavement, reducing pavement temperature with glass beads, and an FHWA Tech Brief on SCMs was highlighted. The newsletter is available here: http://www.cproadmap.org/publications/e-news_May2016.cfm
- The May 2016 MAP Brief was developed and distributed. The MAP Brief topic was "Performance of Thin Roller Compacted Concrete Pavement under Accelerated Loading" Link to it: <http://www.cproadmap.org/publications/MAPbriefMay2016-new.pdf>
- Review of proposed MAP brief re: real-time smoothness
- Prepared and held recycling webinar and internal curing webinar

Develop Specifications and Technical Manuals for New Technology

- NC2 spring meeting and presentations on new technology
- Update 2008 IMCP Manual
 - Contacted and established TAC members for the update of the IMCP manual
 - Completed draft of ch.2- Sustainability
 - Scheduled first TAC for July 11, 2016 to review Sustainability
- Internal Curing Specifications
 - Finalized TAC Group following the March 4, 2016 TAC meeting
 - Collected 6 Internal Curing specifications from State DOT and industry
 - Worked on internal curing specifications and presentation on internal curing for NC2 training

Anticipated work next quarter:

- Continue work on guide specifications for Internal Curing.
- Continue development of IMCP manual update
- Issue additional E-News newsletter and MAP Brief in August for NCC
- Hold a TAC meeting (Date TBD).
- Scheduled additional Webinars on Internal Curing and Recycled Concrete
 - Internal Curing Webinar : October 12, 2016, and November 10, 2016
 - Introduction to Recycling of Concrete Pavements: October 19, 2016, and November 16, 2016

Significant Results:

Circumstance affecting project or budget (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 budget issues.