

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, 2017) X Quarter 2 (April 1 – June 30, 2017) Quarter 3 (July 1 – September 30, 2017) Quarter 4 (October 4 – December 31, 2017)	
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	\$449,063	N/A

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$30,022	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.):**IMCP Manual refresh**

- Five chapters have been completed. The next chapter is being developed for the TAC review.

E- News, Map Briefs, Training and Data Base

- Investigate recent concrete pavement related research for inclusion in the database.
- The July E-News newsletter summarized recent research into uses of pervious concrete for stormwater management; the use success of changing to performance based mix specifications by a state DOT; the development and use of a continuous deflection device to evaluate concrete pavements; and the development of high-performance concrete that is also environmentally friendly. The newsletter is available here: http://www.cproadmap.org/publications/e-news_July2017.cfm
- The July 2017 MAP Brief was developed and distributed. The MAP Brief topic was "Developing a Quality Assurance Program for Implementing Performance Engineered Mixtures for Concrete Pavements" Link to it: <http://www.cproadmap.org/publications/MAPbriefJuly2017.pdf>

Develop Internal Curing Specifications and Technical Manuals for New Technology

- Submitted draft Internal Curing specification to ETG for review on March 19, 2017.
- Held ETG meeting on April 16, 2017 on draft Internal Curing specification.
- Held session on Internal Curing with ETG on draft specification on April 25, 2017 at NC2 meeting and included discussion on absorption of SAP for use in PC Based Concrete Systems.

Anticipated work next quarter:**Internal Curing**

- Plan on completing Internal Curing specification and specification on Absorption of SAP for use in PC Based Concrete Systems by August 31, 2017.
- Exchanged U-Tube Video of specification for specification on Absorption of SAP for use in PC Based Concrete Systems.

IMCP Manual

- The remaining 5 chapters of the IMCP Manual will be developed in the next quarter.

E-News

- Issue new E-News newsletter and MAP Brief.

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.