

# 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.*

<b>Transportation Pooled Fund Program Project #</b> TPF-5(286)	<b>Transportation Pooled Fund Program - Report Period:</b> X Quarter 1 (January 1 – March 31, 2017) Quarter 2 (April 1 – June 30, 2017) Quarter 3 (July 1 – September 30, 2017) Quarter 4 (October 4 – December 31, 2017)	
<b>Project Title:</b> Next Generation Concrete Pavement Road Map		
<b>Project Manager:</b> Brian Worrel	<b>Phone:</b> 239-1471	<b>E-mail:</b> brian.worrel@dot.iowa.gov
<b>Project Investigator:</b> Peter Taylor	<b>Phone:</b> 294-9333	<b>E-mail:</b> ptaylor@iastate.edu
<b>Lead Agency Project ID:</b> RT	<b>Other Project ID (i.e., contract #):</b> Addendum 482	<b>Project Start Date:</b> 9/15/13
<b>Original Project End Date:</b>	<b>Project End Date:</b> 9/14/18	<b>Number of Extensions:</b> 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	\$407,580	N/A

## Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$52,829.21	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**

- Four chapters have been completed. One chapter is in review with the TAC.

**E- News, Map Briefs, Training and Data Base**

- Investigate recent concrete pavement related research for inclusion in the database.
- The April E-News newsletter summarized a NCC survey of agencies' use of keyways to tie multiple lanes together. Recent concrete pavement related research examined the use of lightweight concrete for reducing bridge deck cracking, the bond strength between PCC and HMA layers, roller compacted concrete, and compared slab stabilization using cementitious grout polyurethane foam. The newsletter is available here: [http://www.cproadmap.org/publications/e-news\\_April2017.cfm](http://www.cproadmap.org/publications/e-news_April2017.cfm)
- The April 2017 MAP Brief was developed and distributed. The MAP Brief topic was "Performance Engineered Mixtures (PEM) for Concrete Pavements" Link to it: <http://www.cproadmap.org/publications/MAPbriefApril2017.pdf>

**Develop Specifications and Technical Manuals for New Technology**

- Prepared for and plan to hold on internal curing specifications ETC meeting on April 6, 2017.
- Held Performance Engineering workshop for PennDOT on March 28, 2017 in Harrisburg, Pennsylvania

**Anticipated work next quarter:**

- Continue **Internal Curing** specification development and next ETG meeting is planned at NC2 at 5:00 PM on April 25, 2017. The final specification will be completed in May 2017.
- The remaining 6 chapters of the IMCP Manual will be developed in the next quarter.

**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.