

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: <input checked="" type="checkbox"/> Quarter 1 (January 1 – March 31, 2014) Quarter 2 (April 1 – June 30, 2014) Quarter 3 (July 1 – September 30, 2014) Quarter 4 (October 4 – December 31, 2014)	
Project Title: Next Generation Concrete Pavement Road Map		
Project Manager: Linda Narigon	Phone: 239-1471	E-mail: linda.narigon@dot.iowa.gov
Project Investigator: Tom Cackler	Phone: 294-3532	E-mail: tcackler@iastate.edu
Lead Agency Project ID: RT	Other Project ID (i.e., contract #): Addendum 482	Project Start Date: 9/15/13
Contract End Date: 12/31/14	Est. Project End Date: 12/31/2017	

☒ 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
\$265,000	\$71,829.06	5

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$42,594.94	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.):

- Contacted states to determine dates and topics for training.
- Developed outline for PCC overlay specification.
- FHWA's contribution was added to the pooled fund. Scope was expanded to include E-news and MAP Briefs.
- First e-news and MAP Brief were distributed. MAP brief topic was "Mix Design and Proportioning for Concrete Pavements" Link to it: http://www.cproadmap.org/publications/e-news_March2014.cfm .
- Updated research database with information gathered from state interviews.
- A TAC meeting was held January 7th (minutes are attached).

Anticipated work next quarter:

- Finalize dates, locations, and topics for training events.
- Issue new e-news and MAP Brief. MAP brief will focus on PCC joint performance.
- Finalize PCC overlay outline and begin writing new specifications.
- Continue to update research database as further state interviews are completed.
- A TAC meeting will be held either April 30 or May 1, 2014.

Significant Results:

Opportunity for state DOTs to go to a single source to find concrete related research.

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 problems.

January 7, 2014 TAC Committee Meeting Minutes

TAC members:

Georgia DOT: Jay Page, Georgia DOT
Iowa DOT: Todd Hanson
Kevin Merryman
Linda Narigon
Michigan DOT: John Staton
Oklahoma DOT: Kenny Seward
Matt Romero
Pennsylvania DOT: Jack Hocker
FHWA: Gina Ahlstrom

TPF-5(286) Next Generation Concrete Pavement Road Map Pool Fund (CP Road Map)
January 7, 2014 TAC Meeting Minutes

1. Welcome

Attending ✓

Jay Page, Georgia DOT
✓ Kevin Merryman Iowa DOT
✓ Linda Narigon, Iowa DOT
✓ John Staton, Michigan DOT
✓ Matt Romero, Oklahoma DOT
✓ Jack Hocker, Pennsylvania DOT
✓ Gina Ahlstrom, FHWA
✓ Max Grogg, FHWA

2. Project Overview (see PowerPoint Slides)

The project involves funding from 5 states and \$200K from FHWA. Strategy is to use pooled fund for the project deliverables to the states and use federal money for E-news and MAP briefs (tech briefs) that will be distributed nationally. The recently refreshed Road Map will be the basis. The project's three main goals are:

- Prioritization of projects
 - strategic planning (gaps on existing research)
 - programmatic thinking
 - leverage funding – use money on a programmatic scheme rather than individual
 - database of ongoing work
- Implementation: tech deployment is a strong focus of this PFS
 - connecting people and groups
 - collaboration/coordination (workshops)
 - specifications
- Publicity
 - Federal resources will be used for E-news and MAP briefs
 - News about successes

3. Current Tasks to be Completed and Timeline

Task 1 – Workshops

Each participating state will be contacted regarding a workshop. A list of topics and modules will be sent to the state contact and a workshop specific for each state will be developed. State pooled fund

project reps will be contacted for a name of who to contact to develop this state specific training. The workshop of webinar(s) will be tailored for a unique workshop to meet the needs of each state.

Task 2 – Specifications,

State reps were asked what specs were needed:

- PA and OK: thin bonded and unbonded concrete overlays
- MI: What is the state of the practice for High Performance of dowel bars etc. Need consensus, including industry prospective, of what is needed
 - Stringless paving
 - FHWA has challenged states on specs for stringless paving. Need a way to determine independent QA for stringless paving.
 - State of practice for QA for digitized information – stringless paving, 3D
- IA & OK
 - What standardized testing do states require on stringless paving, MIT scan T2
 - OK: Bonded overlays – university test section on I40 has done well, what was done right?

Task 3 – Database

- The research team has maintained a database for internal use on some of the Road Map tracks and it will be used as the base. (See PPT slide for sample page of the existing database).
- This project will update and maintain a database focusing on:
 - Overlays
 - Preservation
 - Performance of engineering mixes
- Priority tracks will be targeted, however information supplied on other research will be entered into the appropriate tracks as well.
- Specific format of website is still in development. Database will likely be read-only with limited access to adding information.
- A database's effectiveness is dependent on input; the ListServ will be used to query states regarding research.
- Consensus from state reps that this database should be available nationally. It will benefit all states.
- Can a link be added to state databases to include their updates to this one?

Task 4 – TAC

- Quarterly electronic TAC meetings.
- Early in each quarter a Doodle will be sent out

4. Previous Impacts and Accomplishments (TRB AFD50 Committee)

Map and pie charts showing pooled fund states and states involved in the Road Map in some fashion, will be used at the TRB session on Sunday, Jan 13th.

5. E-News/MAP Brief Approach

- E-News will be published 6 times during the next year. Each E-news will contain a 4-6 page MAP brief on a hot topic or recent research result.
- Committee input:
 - Interest in having optimized aggregate gradation be a MAP brief

- Life cycle costs analysis would also be valuable. The last NCC meeting had a good discussion on its importance to all state DOTs. It would be good to have some additional information on it before legislatures start mandating it. .
- Permeability; and in particular diamond grinding, including the ride aspect
- Air void system
- Joints performance update

6. Next Meeting

A Doodle will be sent out for a teleconference in early April.

Final business, Linda Narigon: FHWA has added \$200,000 to the pooled fund. A draft proposal and budget for this additional funding, addressing E-News and MAP Briefs, will be sent to the TAC for their review.