

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(437)		Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2024) Quarter 2 (April 1 – June 30, 2024) Quarter 3 (July 1 – September 30, 2024) X Quarter 4 (October 1 – December 31, 2024)	
Project Title: Technology Transfer Concrete Consortium (TTCC) TPF-5(437)			
Project Manager: Khyle Clute		Phone: 239-1471	E-mail: khyle.Clute@iowadot.us
Project Investigator: John Adam		Phone: 294-3781	E-mail: jfadam@iastate.edu
Lead Agency Project ID:	Other Project ID (i.e., contract #): Addendum 732	Project Start Date: 2/5/20	
Original Project End Date:	Contract End Date: 09/30/2026	Number of Extensions: Incremental funding, PFS	

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	Total Percentage of Work Completed
\$2,149,403	\$1,857,060	NA

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$109,683	N/A	N/A

Project Description:

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. One of the strategies for achieving longer life pavements is to use innovative materials and construction optimization technologies and practices. In order to foster new technologies and practices, experts from state DOTs, Federal Highway Administration (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, support, facilitate and fund concrete research and technology transfer initiatives.

The goal of the TTCC is to:

- Identify needed research projects
- Develop pooled fund initiatives
- Provide a forum for technology exchange between participants
- Develop and fund technology transfer materials
- Provide on-going communication of research needs faced by state agencies to the FHWA, industry, and CP Tech Center

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

- Planning for the Spring meeting which will be held in Rosemont (Chicago), April 8-10, 2025.
- Contract with the Hilton Rosemont were signed and the draft agenda was developed.
- E-News and MAP Brief published this quarter are available: <https://cptechcenter.org/nc2-news/>
 - Map Brief, written by Hailey Goodale, Colorado DOT: *Understanding Environmental Product Declarations (EPDs)*
 - https://cdn-wordpress.webspec.cloud/intrans.iastate.edu/uploads/2024/11/understanding_EPDs_fall_2024_MB.pdf
 - E-News from the field includes:
 - Toward the Development of Pavement-Specific Structural Synthetic Fibers
 - Bendable Concrete Utilized on a Bridge Deck (Engineered Cementitious Composite [ECC])
 - Development of Cost-Effective Rapid-Setting Concrete for Improved Bridge Joint Performance
 - Solutions to Mitigate Dowel/Tie Bar Propagated Cracking – Phase 1

Anticipated work next quarter (January - March):

- Planning for Spring meeting will continue.
- E-news and MAP Brief will be published during the next quarter.

Significant Results:

See <http://www.cptechcenter.org/ncc/TTCC-NCCMeetings.cfm>

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). N/A

There are 36 TTCC TPF 5(437) TAC member states. Representative attendance varies by meeting.

Alabama	2	Illinois	2	Minnesota	2	North Dakota	2	Tennessee	2
Alabama	1	Indiana	4	Missouri	2	Ohio	2	Texas	4
California	3	Iowa	2	Montana	2	Oklahoma	2	Utah	1
Colorado	1	Kansas	4	Nebraska	2	Oregon	1	Washington St	1
Florida	2	Kentucky	2	Nevada	2	Pennsylvania	1	West Virginia	2
Georgia	4	Massachusetts	2	New York	2	South Carolina	2	Wisconsin	1
Idaho	2	Michigan	2	North Carolina	2	South Dakota	2	Wyoming	1

