

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.

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|--|---|--|
| Transportation Pooled Fund Program Project # TPF-5(437) | Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2023) Quarter 2 (April 1 – June 30, 2023) X Quarter 3 (July 1 – September 30, 2023) Quarter 4 (October 1 – December 31, 2023) | |
| Project Title: Technology Transfer Concrete Consortium (TTCC) TPF-5(437) | | |
| Project Manager: Khyle Clute | Phone: 239-1471 | E-mail: khyle.Clute@dot.iowa.gov |
| 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: 12/31/24 | 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 |
|----------------------|--------------------------------|------------------------------------|
| \$1,337,000 | \$1,124,599 | NA |

Quarterly Project Statistics:

| Total Project Expenses This Quarter | Total Amount of Funds Expended This Quarter | Percentage of Work Completed This Quarter |
|-------------------------------------|---|---|
| \$181,860 | 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.):

- Information and PowerPoints from the Fall 2023 meeting held September 12-14 are available: <https://cptechcenter.org/nc2-meetings/>
- The meeting had 189 attendees, with 64 TTCC reps
- E-news and MAP Brief was published in Summer: <https://us10.campaign-archive.com/?u=4bf55bc365dca0e5c928442da&id=9d89e486ee>
- MAP Brief on Revisiting Concrete Scaling: https://intrans.iastate.edu/app/uploads/2023/07/revisiting_concrete_scaling_summer_2023_MB.pdf
- News from the field includes
 - Illinois Center For Transportation: Performance Evaluation of Stabilized Support Layers for Concrete Pavements
 - MnDOT: Performance of Concrete Overlays over Full Depth Reclamation
 - ISU: Impact of Curling and Warping on Concrete Pavement: Phase II

Anticipated work next quarter (October - December):

- Spring meeting April 9-11, 2024 in Birmingham Alabama is being planned.
- 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 35 TTCC TPF 5(437) TAC member states. Representative attendance varies by meeting.

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