

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, 2020) Quarter 2 (April 1 – June 30, 2020) X Quarter 3 (July 1 – September 30, 2020) Quarter 4 (October 1 – December 31, 2020)	
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: Steve Tritsch		Phone: 294-3781	E-mail: stritsch@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: 2/5/21	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
\$230,000	\$101,208	NA

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$23,002	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.):

- The NCC executive committee planned a virtual Fall 2020 NC² meeting consisting of a series of webinars that were held on September 1 – 3 from 9 AM to 12 PM in place of a physical NC² meeting, due to the COVID-19 pandemic. A total of 478 viewers logged in from 41 states and 7 countries outside the U.S. Of that number, 248 state agency personnel participated. Chairperson Dan Miller (Ohio DOT) moderated the sessions. Topics and speakers included:
 - Alkali-Silica Reactivity – Terry Arnold (FHWA), Paul Tennis (PCA), Kevin Folliard (Univ of Texas)
 - Light-Weight Cellular Concrete – Greg Halsted (PCA), James Krstulovich (IL DOT)
 - PEM Tests State Experiences – Ethan Bahmer (MI DOT), Dan Wadley (KS DOT), Kevin McMullen (WCPA)
 - Dowel/Tie Bars – Jeff Roesler (U of Illinois), Maria Masten (MnDOT), Shree Rao (ARA)
 - NTPEP – Katheryn Malusky (NTPEP/AASHTO), Danny Lane (TN DOT), Drew Waldrop (AL DOT)
 - Project Updates:
 - Air loss/return during pumping – Tyler Ley (Oklahoma State Univ)
 - NRRRA Project – Brett Trautman (MO DOT)

A time for Q&A was provided after each presentation, as well as at the end of each morning. The webinar recordings, slide handouts, and Q&A responses are posted on the website here:

<https://intrans.iastate.edu/events/fall-2020-national-concrete-consortium/>

Anticipated work next quarter:

- E-news and MAP Brief will be published during the next quarter.
- State representatives will meet on Thursday, October 15th via WEBEX to discuss:
 - Possibility of travel to a Spring 2021 NC² meeting in Nashville (April 13-15)
 - Research syntheses updates
 - Pavement ME Upgrades – Georgene Geary
 - Maintaining Smoothness – Jerod Gross
 - Fast Setting Patching Materials – Tyler Ley
 - Guidance on Reducing Shrinkage and Restrained Shrinkage Cracking – Jason Weiss
 - Dowel Design/Testing report from CTL/ACPA update
 - Geotextile interlayer project update
 - Other business
- An executive committee meeting will be scheduled to discuss topics and speakers for Spring NC² – whether held virtually or in Nashville.

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 34 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	4
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	1	Utah	1
Washington	1	West Virginia	1	Wisconsin	1	Wyoming	1		