

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(159)	Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2013) Quarter 2 (April 1 – June 30), 2013 XQuarter 3 (July 1 – September 30), 2013 Quarter 4 (October 4 – December 31), 2013	
Project Title: Technology Transfer Concrete Consortium (TTCC)		
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 0273	Other Project ID (i.e., contract #): Addendum 315	Project Start Date: 1/27/07
Original Project End Date:	12/31/2014	Number of Extensions: Incremental funding, PFS

*Administrative contract end date: 6/30/13. Administrative contract, which includes work scope

Project schedule status: components determined by the TAC, is evaluated on an annual basis. Commitments thru 2015.

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
\$870,000.00	\$689,970.14	90%

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$12,712.22	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
- Provide guidance as part of the Track Team for the CP Road Map Mix Design/Analysis Track
- Provide assistance as requested by the CP Road Map Executive Committee on other select tracks

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

- Fall meeting was held in Asheville, NC, Sept 23-25, 2013 with following TTCC participant attendees.

Andrew	Waldrop	Alabama DOT
Mehdi	Parvini	California DOT
Eric	Prieve	Colorado DOT
Bouzid	Choubane	Florida DOT
Rhonda	Taylor	Florida DOT
Jay	Page	Georgia DOT
James	Krstulovich	Illinois DOT
Tommy	Nantung	Indiana DOT
Tony	Zander	Indiana DOT
Todd	Hanson	Iowa DOT
Kevin	Merryman	Iowa DOT
Heather	McLeod	Kansas DOT
Andrew	Jenkins	Kansas DOT
Tyson	Rupnow	Louisiana DOT
Andy	Bennett	Michigan DOT
John	Staton	Michigan DOT
Tom	Burnham	Minnesota DOT
Maria	Masten	Minnesota DOT
Brett	Trautman	Missouri DOT
Lieska	Halsey	Nebraska DOT
Wally	Heyen	Nebraska DOT
Darin	Tedford	Nevada DOT
Nilesh	Surti	North Carolina DOT
Clayton	Schumaker	North Dakota DOT
Craig	Landefeld	Ohio DOT
Matt	Romero	Oklahoma DOT
Kenny	Seward	Oklahoma DOT
Joshua	Freeman	Pennsylvania DOT
Gill	Hedman	S Dakota DOT
Darin	Hodges	S Dakota DOT
Hua	Chen	Texas DOT
Jaime	Gandara	Texas DOT
Bryan	Lee	Utah DOT
David	Luhr	Washington DOT
Jim	Parry	Wisconsin DOT

- There were 128 registrants for the NCC conference
- Presentations and state reports are available on the website www.cptechcenter.org.
- Idaho, New Jersey and South Carolina also attended and are planning/hoping to join for 2014.
- Agenda

Monday, September 23

- 7:30 am Registration
- 8:00 am Welcome - Nilesh Surti, NC DOT
Moderator - Maria Masten, NCC Executive Committee Chair/MnDOT
- 8:15 am Roller Compacted Concrete (RCC)
- New RCC guide specifications – Jerry Voigt, ACPA
 - SCDOT experience with RCC – Andy Johnson, SCDOT
 - Contractor’s perspective – Dan Viperman, AG Peltz
- 10:15 am Concrete Overlays
- *Guide to Concrete Overlays, 3rd Edition* – Gary Fick, Trinity Construction Mgmt
 - *Concrete Pavement Preservation Manual* update – Dale Harrington, CP Tech Center
 - Using concrete overlays as a preservation treatment - Brent Burwell, OK/AR Chpt, ACPA
 - Update on MnDOT bonded and unbonded overlay projects– Julie Vandenbossche, University of Pittsburgh
 - MnROAD’s use of fibers in concrete overlays – Tom Burnham, MnDOT
- 12:50 pm
- Performance Engineered Mixes – Peter Taylor, CP Tech Center
 - Synthesis
 - TPF proposal
- 1:20 pm Florida’s New Test Road – Rhonda Taylor, Florida DOT
- 1:50 pm Federal Highway Pavement Direction – Gina Ahlstrom, FHWA
- 2:50 pm State Reports: Performance Assumptions Used to Support LCCA
- Summary of state reports – Darin Hodges, SD DOT
 - Presentations by 3-4 states
 - What length of analysis period does your state use?
 - Are concrete overlays considered as a rehabilitation strategy?
 - How does your state determine the time until 1st rehabilitation; 2nd rehabilitation; 3rd rehabilitation, etc., for each pavement type?
 - What preservation treatments are used and what are the performance assumptions for each?
 - Are the planned preservation treatments tied into your pavement management system?
 - Are the planned preservation treatments actually accomplished?
 - Discussion

Tuesday, September 24

- 8:00 am Advanced LCCA Practices
- New economic realities - Ed Sullivan, PCA
 - Robust pavement management solutions using LCCA analysis - Jim Mack, Cemex
 - FHWA update - Eric Ross, FHWA
- 9:30 am Pavement type selection – Gary Crawford, FHWA
- 10:30 am MAP 21 Performance Measures
- Federal perspective: Butch Wlaschin, FHWA
 - State perspective: David Luhr, WSDOT
 - Industry perspective: Leif Wathne, ACPA
- 12 noon Box lunches/introduction to technical tour (at the hotel)- NC DOT
- 1:15 pm Board buses for technical tour (I-26 and I-40 pavements).
- 6:00 pm Group dinner – Magnolia’s, Asheville.

Wednesday, September 25

- 8:00 am Business Meeting
- Resubmittal of domestic scan proposal
 - Spring 2014 meeting - Florida
- 8:30 am TPF Projects
- Summary of ongoing concrete-related TPF projects
 - New solicitations
 - SAM – Tyler Ley, Oklahoma State University
- 9:00 am
- NCC's role in concrete pavement research / overview of how research is funded nationally – Max Grogg, FHWA-Iowa Division
 - TTCC-NCC relationship / ongoing work and priorities / CP Road Map– Peter Taylor
- 10:30 am Problems/Innovations for Discussion
- Investigation into performance of full-depth repairs in MN – Maria Masten, MnDOT
 - Ongoing pavement performance measures discussion regarding MAP 21 – Judith Corley-Lay, NC DOT
 - Revisiting SPS-2 Concrete Test Pavements – What else can we learn 20 years later? Additional materials testing, ideas for states to learn “local” lessons, and the Kansas SPS-2 Open House – Heather McLeod, KDOT
- 11:45 am Adjourn

Anticipated work next quarter:

- Planning for Spring Conference to be held in April in Florida
- Draft scope for continuation of pooled fund under a new TPF number

Significant Results:

See http://www.cptechcenter.org/t2/ttcc_ncc_meeting.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).

Meeting will be held in November to discuss 2014 funding to ensure the project's funding is sufficient for 2014's 2 meetings.

TTCC TAC committee is listed on following page:

Reps as per TPF website are noted with *

Reps & Attendees States w/ 2 Attendees	State	First	Last	E-Mail
1	Alabama	Larry	Lockett*	lockett@dot.state.al.us
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*technical rep(s) per PFS web