**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:** Quarter 1 (January 1 – March 31, 2014) x 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: Phone: E-mail:**Linda Narigon 239-1471 linda.narigon@dot.iowa.gov |
| **Project Investigator: Phone: E-mail:**Tom Cackler 294-3532 tcackler@iastate.edu |
| **Lead Agency Project ID:**RT  | **Other Project ID (i.e., contract #):**Addendum 482 | **Project Start Date:**9/15/13 |
| **Original Project End Date:****12/31/14** | **Original Project End Date:** | **Number of Extensions:**  |

x 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 | $54,377.11 | 5 |

***Quarterly*** Project Statistics:

|  |  |  |
| --- | --- | --- |
|  **Total Project Expenses** **This Quarter** |  **Total Amount of Funds**  **Expended This Quarter** | **Percentage of Work Completed** **This Quarter** |
| $25,142.09 | 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

**Technical Advisory Committee:**

**Iowa DOT** Todd Hanson

 Kevin Merryman

 Linda Narigon

**Georgia DOT** James Page

**Michigan DOT** John Staton

**Oklahoma DOT** Kenny Seward

**Pennsylvania DOT** Larry Ligon

**FHWA:** Gina Ahlstrom

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

* June e-news and MAP Brief were distributed. MAP brief topic was “Constructing Concrete Pavements with Durable Joints” Link to it: <http://www.cproadmap.org/publications/e-news_June2014.cfm> .
* Updated research database with information gathered from state interviews.
* A TAC meeting was held May 1st (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 deicing salts and concrete pavements.
* Continue development of new PCC overlay specifications.
* Continue to update research database as further state interviews are completed.
* A TAC meeting will be scheduled.

**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 budget issues.

TPF-5(286) Next Generation Concrete Pavement Road Map Pool Fund (CP Road Map)

May 1, 2014 TAC Meeting Minutes

Attendees:

Todd Hanson, Iowa DOT

Larry Ligon, Pennsylvania DOT

John Staton, Michigan DOT

Gina Ahlstrom, FHWA

Peter Taylor, CP Tech Center

Tom Cackler, CP Tech Center

Dale Harrington, Snyder & Associates, Inc.

Steve Klocke, Snyder & Associates, Inc.

Members unable to Attend:

James Page, Georgia DOT

Kenny Seward, Oklahoma DOT

Kevin Merryman, Iowa DOT

Linda Narigon, Iowa DOT

Tom welcomed the attendees and stated we would like to give an update on the CP Road Map.

1. TRB Presentation (Jan. 2014) & NC2 (April 2014) on Roadmap

Dale stated in January 2014 Peter and he went meet with the TRB committee and talked about the research achievements from the CP Road Map. They gave the TRB committee an overview of the Road Map. Dale stated the TRB committee got a good idea of what has been completed and what is being proposed.

Dale stated some of them were at the recent NCC meeting last week. He stated they presented on what the Road Map was doing to the NCC group also. During the meeting they pointed out which states are participating in the CP Road Map.

1. Current Tasks to be Completed and Timeline

A. Task 1 – Workshops

* Review of contacts and subject matters

Dale stated in 2012 under the CP Road Map and other funding the CP Tech Center provided workshops for CP Road Map state funders. There were 10 topics for workshops in 2012 which were given around the country to several states. Dale asked the TAC Committee what kind of training they would be interested in. He pointed out the flyer that was developed in 2012 and that he would send it to the TAC Committee for information on the workshop subjects. Dale stated the topics can be combined into one workshop. Dale asked the TAC if they agreed with the subjects and asked them who to contact in their state to begin the process in setting up the training.

**Michigan DOT – John Staton** – He asked if the COMPASS training was still going forward.

* Dale stated it should be changed to remove COMPASS Software and just have the concrete mix training.
* Tom asked the Committee if they have other topics to add to let Dale know.
* Peter asked Gina about COMPASS. Gina didn’t feel much has happened with COMPASS. She felt it was up in the air if we are talking about performance mixtures. Peter felt it was stagnant at this time. Gina stated ACI is developing a workshop on COMPASS and felt it could be overlap. How about internal curing for pavement as a topic.
* John felt that **internal curing** **for pavements** would be a good topic.
* Peter would like the **concrete mix proportioning** topic kept for training.
* Dale asked who to contact in Michigan. John stated Michigan has an internal training coordinator. John stated he would be our contact and he will keep their internal coordinator information and let us know what they would like for training.

**Pennsylvania DOT - Larry Ligon –** He stated that Josh Freeman was previously involved along with him. Larry stated he will get the training coordinator contact information for PennDOT and forward it to Dale Harrington.

**Iowa – Todd Hanson -** Todd stated we already have a good system with contacting Linda Narigaon. Dale stated we will continue with that process.

Dale asked Gina if FHWA would like training as it is available to them. Gina didn’t feel at this time they needed any of the suggested training. She stated they would like to have the FHWA Division person at the state level informed of the training.

Dale stated if the State DOTs wanted to contact their ACPA State Chapter they can help with costs for lunches for the training. John Staton stated Michigan had charged a registration fee for a previous workshop and that the Michigan state chapter donated the training room.

Dale stated we will use the flyer with the corrections for the internal curing for pavements and concrete mix proportioning and removing the COMPASS.

John talked about the QA workshop that Jim Grove FHWA presented and he would like that again in his state. Peter stated we need to look at the funding to see about the training that FHWA is providing and what the CP Road Map is providing. Dale stated it is not the same QA program however we are in line with the FHWA program.

The committee agreed with the flyer being used with the corrections suggested.

B. Task 2 – Specifications

* Review and obtain input on outline of overlay specifications

Dale stated at the last TAC meeting the committee asked the CP Tech Center to look at developing specifications. At the meeting it was agreed to look at specifications for concrete overlays as a guide specification.

Dale stated the *Considerations for Developing Project and Supplemental Specifications* was developed and is in the appendix of the update of the Overlay Guide which was done with a lot of input from states around the country. Dale stated a draft outline for developing guide specifications has been prepared. He mentioned that Steve Klocke will be doing most of the work on developing the guide specifications. Dale asked the committee if there was anything the committee wanted changed or added to the outline.

John Staton asked about item *1.05 Measurements and Payments* and asked if it is about additional work for keeping the mixture wet with accelerated curing. John had a question about what is used with accelerated curing. He stated it may not be the proper term. Peter suggested changing the term to “enhanced curing”. 1.05 F. It was agreed to change it to **enhanced curing**.

John asked about adding load transfer or jointing reference. Dale stated it is covered under sawing.

Dale stated the outline will probably change and that it is just a starting point. Dale asked the committee to let him know if they would like to add or change any of the items.

1. Task 3 – Database
* Review and input on format and items covered in data base

Peter Taylor stated the CP Tech Center has collected data from three sources and the priorities areas. He stated they have also collected information from NCC states on good research in their locations. The Center has also compiled the information from the previous road map database and the new information currently being collected from the states for the upcoming E-News. Peter stated the database has been posted on the CP Tech Center website under the technical library as a searchable working database.

Peter stated during the NCC meeting a few weeks ago the members asked to add the implementation activities to the database. The Center asked the states to provide the implementation information from their states to add to the database.

Tom stated if there is anything they want added to the database to forward it to the CP Tech Center.

1. Task 4 E-News/MAP Brief Approach
2. E-News Update

Steve Klocke stated the first E-News was out the first of April 2014 along with the MAP Brief. The E-News covered the *News from the Road* research from around the country. The April edition focused on Michigan and the next edition will focus on Pennsylvania on what research is currently going on and what they are looking at in the future. Steve stated the next edition will be out in a few weeks.

Larry Ligon, Pennsylvania DOT stated he will be meeting with some of his personnel and forwarding some information to Steve.

Dale stated ISCP put the CP Road Map E-News in their website.

1. Map Brief subjects for Approval

Dale pointed out the listed below for the upcoming MAP Briefs:

* + March 2014 - Mixture Design and Proportioning
	+ May 2014 - Joints Performance Update
	+ July 2014 - Optimized Aggregate Gradation
	+ Sept.2014 - Life Cycle Cost Analysis
	+ Nov. 2014 - Permeability and Air Void System

Dale stated all topics the TAC Committee suggested from the January 2014 meeting are being covered with the exception of Diamond Grinding.

The TAC committee agreed with the MAP Brief topics suggested.

Tom asked the committee if they had any questions or comments. The committee did not have anything to add.

Dale asked the committee about the concern regarding standardization for testing using 3D module on their construction projects. Dale stated that we are developing training modules on 3D and technical support call center. Dale stated he could send John the information on the testing and QA for stringless 3D. John felt the information would be helpful.

1. Next Meeting

Tom stated the next meeting will be around the first of July 2014. The committee suggested sending a Doodle Calendar for setting the next meeting. Tom thanked the committee and stated we will send the minutes to them. Tom asked the committee to look at the training available, to send the CP Tech Center information they may have for the database and to send their comments on the overlay specification.

Meeting Adjourned