**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(233)* | | **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 1 – December 31, 2014) | |
| **Project Title:**  Technology Transfer Intelligent Compaction Consortium (TTICC) | | | |
| **Project Manager: Phone: E-mail:**  Steve Megivern 239-1936 stephen.megivern@iowa.dot.gov | | | |
| **Project Investigator: Phone: E-mail:**  David White 294-1463 djwhite@iastate.edu  Pavana Vennapusa 294-2395 pavanv@iastate.edu | | | |
| **Lead Agency Project ID:**  RT 0347 | **Other Project ID (i.e., contract #):**  Addendum 385 | | **Project Start Date:**  8/6/10 |
| **Original Project End Date:**  3/15/14 | **Current Project End Date:**  06/30/2015 | | **Number of Extensions:**  Ongoing pooled fund; interim budgets |

Project schedule status:

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** |
| $349,000 | 299,037.37 | ongoing |

***Quarterly*** Project Statistics:

|  |  |  |
| --- | --- | --- |
| **Total Project Expenses**  **This Quarter** | **Total Amount of Funds**  **Expended This Quarter** | **Percentage of Work Completed**  **This Quarter** |
| $21,174.46 |  |  |

**Project Description:**

Increasingly, state departments of transportation (DOTs) are challenged to design and build longer life 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 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 and emerging technologies and systems. The purpose of this pooled fund project is to identify, support, facilitate and fund intelligent compaction research and technology transfer initiatives.

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

* A conference call was held with the TAC members on 5/21/2014. A total of 17 members attended the call with thirteen representatives from KY, CA, VA, IA, WI, PA, MO, and GA DOT; FWHA; and ISU. Some key aspects of the phone call was to discuss the upcoming face-to-face meeting in Harrisburg, PA, review the scope of work for FY2015 and approve the budget, and state DOT updates on IC implementation in their states. Meeting minutes are attached to this QPR.
* A face-to-face meeting is being organized for September 3-4 in Harrisburg, PA. Penn DOT will be hosting the meeting. The first day will include meeting at Penn DOT and travel to a site for HMA roller demonstration, and the second half day will include a working session to develop a draft specification. A draft meeting agenda has been developed and is attached to this QPR.

**Anticipated work next quarter:**

* 3 new IC Case Histories.
* Updates to TTICC web page.
* IC workshop meeting in Harrisburg, PA.
* Workshop report highlighting key outcomes from the meeting.

**Significant Results:**

* Developed outline for the 2 minute TTICC IC 101 video animation.

**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).**

**TAC committee:**



**Technology Transfer for Intelligent Compaction Consortium (TTICC)**

**Conference Call Minutes – 5/21/2014**

**Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Representing | Name | Organization | Email |
| Iowa State Univ. | David White (DW) | ISU | [djwhite@iastate.edu](mailto:djwhite@iastate.edu) |
| Sharon Prochnow (SP) | ISU | [prochnow@iastate.edu](mailto:prochnow@iastate.edu) |
| Denise Wagner | ISU | [dfwagner@iastate.edu](mailto:dfwagner@iastate.edu) |
| Pavana Vennapusa (PV) | ISU | [pavanv@iastate.edu](mailto:pavanv@iastate.edu) |
| Kentucky | David Hunsucker (DH) | KY Trans. Center | [David.Hunsucker@uky.edu](mailto:David.Hunsucker@uky.edu) |
| Adam Ross (AR) | KY DOT | [adam.ross@ky.gov](mailto:adam.ross@ky.gov) |
| California | James Lee (JL) | CalTrans | [james\_n\_lee@dot.ca.gov](mailto:james_n_lee@dot.ca.gov) |
| Virginia | Ed Hoppe (EH) | VDOT | [edward.hoppe@vdot.virginia.gov](mailto:edward.hoppe@vdot.virginia.gov) |
| Iowa | Melissa Serio (MS) | Iowa DOT | [melissa.serio@dot.iowa.gov](mailto:melissa.serio@dot.iowa.gov) |
| Steve Megivern (SM) | Iowa DOT | [stephen.megivern@dot.iowa.gov](mailto:stephen.megivern@dot.iowa.gov) |
| Jeff Schmitt (JS) | Iowa DOT | [jeffrey.schmitt@dot.iowa.gov](mailto:jeffrey.schmitt@dot.iowa.gov) |
| Wisconsin | Judie Ryan (JR) | WisDOT | [judith.ryan@dot.wi.gov](mailto:judith.ryan@dot.wi.gov) |
| Pennsylvania | Sherry Little (SL) | Penn DOT | [slittle@pa.gov](mailto:slittle@pa.gov) |
| Missouri | Kevin McLain (KM) | MoDOT | [kevin.mclain@modot.mo.gov](mailto:kevin.mclain@modot.mo.gov) |
| Georgia | Al Casteel (AC) | GDOT | [acasteel@dot.ga.gov](mailto:acasteel@dot.ga.gov) |
| Ian Rish (IR) | GDOT | [irish@dot.ga.gov](mailto:irish@dot.ga.gov) |
| FHWA | Max Grogg (MG) | FHWA | [max.grogg@dot.gov](mailto:max.grogg@dot.gov) |

PA Meeting September 3-4, 2014:

* Daniel Clark with Penn DOT has been working with Denise to set up the meeting.
* The meeting will be held for 1.5 days. Day 1 morning will involve meeting at Penn DOT office in Harrisburg, PA. Day 1 afternoon will involve travel to an active project site (about 1 to 1.5 hrs away from Harrisburg). Day 2 morning will be to wrap-up. Depart by Noon.
* Denise is working on hotels. Will contact TAC as soon as it is set up.
* A detailed agenda will be sent out by end of August.
* Everyone is welcome to this meeting. However, pooled fund will cover the expenses for one or two people, depending on each state’s contribution. Please check with your state about how many are allowed.

Budget and Review of Scope of Work for FY2015:

* DW provided an overview of the FY2015 tasks outlined in the scope of work sent out for TAC review.
* Antonio Vasquez from FHWA contacted DW for high-def version of the IC101 for EDC training activities. DW is working on providing a copy of the video.
* One of the FY2015 activities is to make a 3-minute version of the IC101 video.
* DH – A 3-min version of the video will be helpful.
* SP provided an overview of the budget for the period July 1, 2014 to June 30, 2015.
* The budget was unanimously approved.

Updates:

* MG: No new updates.
* AC: IC was used on one grading project, which is halfway done. CAT CS74 machine was used on the project. There is another grading project where IC will be used, which will be starting soon.
  + DW – Can this project information be shared to develop an IC tech brief? Any feedback from the contractor?
  + AC – Received positive feedback so far from the contractor.
  + DW – We can setup a conference call together with the contractor and get some information that can be helpful for the tech brief.
* DH: KY will be hosting a HMA demo and workshop with Lee Gallivan and George Chang. DH to send information regarding the workshop to Denise to share it with the rest of the team. Will see if CS74 roller (in Paducah) can be used for grading projects in KY. [KY IC Demo Link](http://www.intelligentcompaction.com/projects/2012-2014-fhwa-hma/2014-field-projects/kentucky-ic-demo-2014/)
* AR: Will contact the district engineer there to use CS74 roller on projects in KY.
* MS: Arranging with Mn/DOT on tech transfer with 5-6 people from IaDOT to discuss HMA and Soils IC. Can provide an update of this in the September meeting.
  + DW: Will add this as an agenda item during the PA meeting.
* KM: Used IC on HMA projects with just coverage. Looking forward to using it on grading projects. FHWA workshop was held in March. Workshop went well with good classroom presentations and hands-on experience with the equipment.
* JL: CalTrans developed an IC spec for HMA and used it on a project last year. Working on a cold in-place recycling project spec for this year. Planning to use on 8 more projects.
  + PV: Will follow-up with JL on information regarding the last year project for a possible IC brief.
* EH: There has been more discussion about the topic in VA. Recently attended a FHWA webinar. VA is thinking about how to provide incentive to the contractor for using the technology. Not identified a project yet.
* JR: There are opportunities in 2014 for HMA. Will be looking at soils next year. Implementation challenges are being discussed and will update during September meeting. WI is looking at benefits of percent within limits and incentive-based specifications. There is a new RFP out by WHRP for a project that looks at compaction effort and efficiency on thin overlays and joint construction. IC technology may be used on the project as a testing tool. WI is looking forward to 2015 opportunities. Knowing hits on the IC101 video is nice. Are we tracking hits on the T2 documents and the TTICC website? What about have a Facebook page for updates when we visit active project sites?
  + DW: We are tracking hits on the T2 documents. Will update the team on the hits during the September meeting.
* SL: There was some resistance initially, but 9 out of 11 districts are now interested. 4 projects this year with IC and 1 project started last week. So far there was only one equipment operator. We had three pre-con meetings. Contractors seemed to be very excited. All projects on HMA this year.

**Technology Transfer Intelligent Compaction Consortium: Addm 385 TPF-5(233)**

September 3-4, 2014  
Agenda

**Wednesday, September 3, 2014**

|  |  |
| --- | --- |
| 8:00 am  8:30 am | Shuttle picks up participants at Crowne Plaza Harrisburg, 23 S 2nd Street, and transports to PennDOT  Introductions |
| 9:00 am | TTICC Update by CEER (tech transfer, video, upcoming IC opportunities) |
| 9:30 am | State DOT IC implementation updates/challenges |
| 11:00 | PennDOT IC experience and showcase project |
| 12:00 noon | **Lunch** |
| 1:00 pm | Transportation to HMA IC roller demo (see attached map) |
| 5:00 pm | Transport participants back to hotel. |
| 6:00 pm | **Working dinner** - TTICC business meeting at the hotel. |
| 8:00 pm | Adjourn for the day |

**Thursday, September 4, 2014**

|  |  |
| --- | --- |
| 7:45 am | Shuttle picks up participants at Crowne Plaza Hotel and transports to PennDOT |
| 8:00 am | Working session to discuss IC specification development for HMA, aggregate bases, and soils. (Note: Participants submit draft specification language to CEER by **August 15, 2014**) |
| 11:30 am | Wrap up. Summary and direction forward. |