**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(081)* | **Transportation Pooled Fund Program - Report Period:**□Quarter 1 (January 1 – March 31) Quarter 2 (April 1 – June 30)XQuarter 3 (July 1 – September 30)□Quarter 4 (October 4 – December 31) |
| **Project Title:** Midwest Smart Work Zone Deployment Initiative |
| **Project Manager: Phone: E-mail:**Dan Sprengeler 515-239-1823 dan.sprengeler@dot.iowa.gov |
| **Project Investigator: Phone: E-mail:**Tom McDonald 515-294-6384 tmcdonal@iastate.edu |
| **Lead Agency Project ID:**RT 63 | **Other Project ID (i.e., contract #):**Addendum 189 | **Project Start Date:** 1/01/11 |
| **Original Project End Date:** 12/31/11 | **Current Project End Date:** 12/31/11 | **Number of Extensions:**None |

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** |
| $35,595.00 | $20,494.56 | 75% |

***Quarterly*** Project Statistics:

|  |  |  |
| --- | --- | --- |
|  **Total Project Expenses** **This Quarter** |  **Total Amount of Funds**  **Expended This Quarter** | **Percentage of Work Completed** **This Quarter** |
| $6,921.95 |  |  |

**Project Description:**

* Vendor Solicitation
* Distribute Group Reports
* Maintain website
* TAC meetings
* Maintain research report
* Recommend research reimbursement
* Solicit state participation
* Inquiry contact
* (On-going project)

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

Work has been completed on all 2007 program projects and continues on 2006, 2008, 2009 and 2010 program year projects. Three projects from these program years were completed and draft final reports submitted for review this quarter. Projects have been selected for the 2011 program.

Received and recorded quarterly report data from Principal Investigators for contracted projects. Following is a summary of accomplishment for individual projects under contract.

2006 Program:

-Smart Work Zone Forecasting Service, Iowa State University, Zach Hans, PI

Project was previously delayed due to lack of study sites and a no-cost extension to June 2011 was been approved. Draft final report has been distributed to Board for review and comment. 99% complete at this time..

2007 Program:

-Work Zone Capacity Guidelines, Missouri University of Science & Technology,

Ghulam Bham, PI

 Final report has been submitted and approved by the Board of Directors. 100% complete

- Evaluation of Work Zone Speed Limits, Missouri University of Science & Technology, Ghulam Bham, PI

Work was delayed due to unavailability of suitable date collection sites. The revised final report has been submitted and approved by the Board of Directors. 100% complete

2008 Program

-Evaluation of Variable Speed Limits for Work Zones, University of Missouri,

Praveen Edara, PI

Work on project continues but has been delayed due to lack of study sites. A no-cost time extension to 09/30/2012 has been approved and work is expected to be completed in 2012. 30 % complete at this time.

-Ramp Metering for Work Zone Mobility & Safety, University of Missouri,

Praveen Edara, PI

Researchers have worked with MoDOT to identify study sites. A no-cost time extension to 05/31/2012 has been approved. 30 % complete at this time.

-Examining Driver Behavior in Response to Work Zone Intervention, University of Iowa, Michele Reyes, PI.

Final report has been submitted and approved by the Board of Directors, 100% complete.

-Evaluation of Effectiveness of Temporary Pavement Markings, Iowa State University,

Neal Hawkins, PI

Project has been delayed due to unavailability of study sites but a project was identified and field work initiated in the Spring of 2011. A no-cost extension has been processed to extend the completion to June 2012. 30% complete at this time.

2009 Program

- Behavior Study of Merge Practices of Drivers at Work Zone Closures, Iowa State University, Shauna Hallmark, PI

Final report has been submitted and approved by the Board of Directors. 100% complete.

2010 Program

-Cost Benefit Analysis of Sequential Warning Lights in Nighttime Work Zone Tapers, University of Missouri,

 Carlos Sun, PI

Final report has been submitted and approved by the Board of Directors. 100% complete.

-Determining the Effectiveness of Graphic-Aided Dynamic Message Signs in Work Zones, University of Kansas,

Yong Bai, PI

Final report has been completed and approved by the Board of Directors. 100% complete.

-Development of a Traffic Diversion Estimation Model for Freeway

Construction Work Zones, University of Wisconsin-Milwaukee, Alan Horowitz and Yue Liu, are the PIs.

Work is proceeding on the project, with three of six project tasks completed. Model development and application are underway. Data collection is proceeding well. Approximately 80% complete at this point.

2011 Program

Three projects were approved for award by the Board of Directors. Contracts have been submitted to the PIs for signature.

2012 Program

Problem statements have been approved for distribution to investigators as RFPs. Responses to those is expected by mid-November. Projects will then be selected by the Board for award.

**Anticipated work next quarter:**

Additional research should be completed and work will begin on 2011 program projects. The 2012 program projects should also be selected.

**Significant Results:**

Several projects were completed this quarter and progress is being made of others.

**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 problems to report.