TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Louisiana Transportation Research Center (LTRC)

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 # *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* TPF-5(242), Phase III		**Transportation Pooled Fund Program - Report Period:** ☑ Quarter 1 (January 1 – March 31) ☐ Quarter 2 (April 1 – June 30) ☐ Quarter 3 (July 1 – September 30) ☐ Quarter 4 (October 1 – December 31)
Project Title: Prep-ME Software Implementation and Enhancement		
Name of Project Manager(s): Doc Zhang	**Phone Number:** 225-767-9162	**E-Mail** Doc.Zhang@LA.GOV
Lead Agency Project ID:	**Other Project ID (i.e., contract #):**	**Project Start Date:** April 1 2015
Original Project End Date: December 31 2016	**Current Project End Date:** December 31 2016	**Number of Extensions:** 0

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	Percentage of Work Completed to Date
$142,202	$0	0%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$0 and 0%	$0	0%

Project Description:

Pavement ME Design (previously MEPDG/DARWin-ME) is a significant advancement in pavement design, but requires much more inputs from various sources. Through the transportation pooled fund study TPF-5(242), the Phase II final deliverable Prep-ME software is capable of pre-processing, importing, checking the quality of raw Weigh-In-Motion (WIM) traffic data, and generating three levels of traffic data inputs with in-built clustering analysis methods for Pavement ME Design. This software complies with FHWA Traffic Monitoring Guide (TMG) and TMAS for quality assurance and quality control (QA/QC), and can be used by state highway agencies for the QA/QC of traffic data collection, analysis of truck loading data, and preparation of input for AASHTO Pavement ME software.

The objective of proposed Phase III project is to assist participating state DOTs on the full implementation of Prep-ME software for traffic data collection and Pavement ME Design and to deliver new generation of Prep-ME software with enhanced and customized features for each individual state. The proposed tasks to be performed in Phase III include:

- Task 1 - Provide On-Site and Webinar Training for Participating States,
- Task 2 - Develop Portable Version of Prep-ME for Field Data Collection and WIM Calibration,
- Task 3 - Enhance Existing Traffic Module in Prep-ME,
- Task 4 - Provide Technical Support to Meet State Needs.

Upon completion of this project, participating state DOTs will have a software and database tool set used not only by pavement design engineers to prepare input for Pavement ME Design, but also traffic data collection engineers to collect better traffic data and manage those data for other applications.

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

The Phase III of the TPF-5(242) project has not started yet in this quarter (Jan - Mar 2015). The major work in this quarter is to finalize the Phase III proposal and prepare related contractual documents. In January 2015, the OSU team drafted the Phase III technical and budget proposals and disseminated them to the participating states for comments. By the end of February, all the comments and proposal evaluation forms were received and the proposal was revised accordingly. Point-to-point responses to the comments were sent back to each participating state. In March, the Phase III technical and budget proposal was finalized and sent to OSU contracting office and LTRC. It is anticipated that the Phase III will commence on April 1, 2015.

Anticipated work next quarter:

The anticipated starting date of Phase III is April 1, 2015. The OSU team will start working on all the four tasks in the next quarter:

(1) TASK 1 - PROVIDE ON-SITE AND WEBINAR TRAINING FOR PARTICIPATING STATES
The OSU research team will work with the six participating states on dates for on-site trainings, prepare data sets and training documents. WIM data sets will be obtained from these states and the training will be customized for each state using their own data sets.

(2) TASK 2 DEVELOP PORTABLE VERSION OF PREP-ME FOR FIELD DATA COLLECTION AND WIM CALIBRATION
In the next quarter, the OSU team will start developing a portable version of Prep-ME that is capable to check traffic data in the field is of great importance. It is anticipated that the beta version of the portable Prep-ME software will be delivered to participating states for testing in the third quarter of 2015.

(3) TASK 3 ENHANCE EXISTING TRAFFIC CAPABILITIES IN PREP-ME
The research team will continue improving the Prep-ME software based on further feedback from participating states during the implementation process. Any issues or bugs will be addressed or corrected in a timely manner. New desired features from participating states will be added to enhance the existing capabilities in Prep-ME.

(4) TASK 4 - PROVIDE TECHNICAL SUPPORT TO MEET STATES' SPECIAL NEEDS
During the implementation of Prep-ME for daily traffic data collection and ME based pavement design, technical support will be provided on a need basis aiming to help state DOTs deploying the Prep-ME software. Any special needs arose from participating states during the implementation process will be addressed by the research team. Desired enhancement of particular software features or modules will be developed with close consultation with the participating states.

Significant Results:

The Phase III of the TPF-5(242) project has not started yet in this quarter. After addressing the comments from the participating states, the Phase III technical and budget proposals were finalized and sent to OSU contracting office and LTRC. The anticipated Phase III starting date is April 1, 2015.

Circumstance affecting project or budget. (Please 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).

There is no circumstance affecting the project or budget at this time.

Potential Implementation:

No new information on implementation at this time, other than what has been reported on the application of Prep-ME at individual states.