**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Lead Agency (FHWA or State DOT): Alabama 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.*

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| **Transportation Pooled Fund Program Project #***(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)*TPF-5(228) | **Transportation Pooled Fund Program - Report Period:** **√** Quarter 1 (January 1 – March 31)Quarter 2 (April 1 – June 30) 2014Quarter 3 (July 1 – September 30) Quarter 4 (October 1 – December 31) |
| **Project Title:**Superpave Regional Center, Southeastern Region |
| **Name of Project Manager(s):**Don Watson and Randy West | **Phone Number:**(334) 844-7306 | **E-Mail**watsode@auburn.edu |
| **Lead Agency Project ID:**ALDOT Research Project No. 930-763P | **Other Project ID (i.e., contract #):**224574 | **Project Start Date:**April 28, 2010 |
| **Original Project End Date:**September 30, 2012 | **Current Project End Date:**September 30, 2017 | **Number of Extensions:**3 |

Project schedule status:

On schedule √ On revised schedule Ahead of schedule Behind schedule

Overall Project Statistics:

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|  **Total Project Budget** |  **Total Cost to Date for Project** |  **Percentage of Work**  **Completed to Date** |
| $1,303,353  | $795,322 | 65 |

***Quarterly*** Project Statistics:

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|  **Total Project Expenses**  **and Percentage as of This Quarter** |  **Total Amount of Funds**  **Expended This Quarter** |  **Total Percentage of**  **Time Used to Date** |
| $795,322 (61% of budget) | $58,487 | 50 |

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| **Project Description**:The Southeastern Superpave Center has been supported by state agencies through a pooled-fund project that has been largely used to provide training, verify ruggedness of equipment, check equipment calibrations, provide materials research, and aid in keeping agency personnel abreast of changes in asphalt technology. In order to continue the efforts in training, technology transfer, and implementable research, it is essential that the pooled-fund effort be continued. ***NOTE:*** *This pooled-fund project is not limited to states located in the southeast. Agencies throughout the country are invited to participate and take advantage of the research and training opportunities provided by the Southeastern Superpave Center.***OBJECTIVES**Several short-term and long-term objectives of the Southeastern Superpave Center are listed below. Several objectives deal with evaluating recently-developed performance test equipment and conducting research to address materials and tests issues. Objectives of the Center are:1. Conduct training in regard to Superpave binders, mix design, and performance testing. Provide training on special topics as requested by participating agencies at their on-site locations.
2. Perform research, both cooperatively and agency-specific, sponsored by members of the pooled-fund.
3. Perform precision and bias testing for asphalt-related performance test equipment.
4. Conduct noise studies in an effort to develop quieter pavements.
5. Perform forensic evaluations on materials or projects that have experienced premature distress.
6. Prepare research articles of regional and national interest.
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| **Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):****MEPDG CLIMATE DATABASE** The research team coordinated with LTRC to identify three representative pavement sections for use in verifying the climate files. The work for the first phase of this research has been completed, and LTRC has asked that the research be extended to include more information.Progress on the project has been delayed while the PI waited on signed Subcontract from Iowa State University. **OGFC STUDY**A study of OGFC performance for several aggregate sources in South Carolina is almost complete and the draft final report is being prepared. A few of the sources have a marginal to poor performance history and will be compared to a "control" mix source that has provided satisfactory results. During this quarter the following work has been done:* Completed Cantabro loss, moisture susceptibility testing, and British Polish testing.
* Began summarizing test information and preparing the draft final report.

**Crumb Rubber Study**Follow-up testing was conducted on a test project that was placed in 2013. The project has a portion of the project with crumb rubber modifier (CRM) added to the asphalt cement, and a portion of the project was designed as a control section without the use of CRM. The CRM sections have slightly lower friction values, but both sections have acceptable friction results. Noise comparisons have also been made using the OBSI test method to compare noise at the tire-pavement interface. There is relatively no difference in noise level between the CRM and unmodified sections.**TRAINING**Two training courses (one Binder and one Mix Design) have been scheduled for GDOT and will be taught next quarter. Training courses for Puerto Rico are also being planned to continue technician development and certification. The training this year will be expanded to include soil and aggregate base testing and inspection.**TECHNOLOGY TRANSFER/TECHNICAL MEETINGS** Several agencies used funds this period to pay travel and registration expenses for employees to attend national meetings of technical interest such as TRB and the NCAT Test Track Conference. **Anticipated work next quarter**:A Subcontract has been obtained with Iowa State to continue the MEPDG climate study. The final report on OGFC work for South Carolina will be completed. Alabama research on the effectiveness and performance of asphalt rejuvenators as a way of possibly improving performance of OGFC mixtures will continue.A revised training agenda for Puerto Rico for calendar year 2015 will be developed.A study for Puerto Rico to evaluate the effect of crumb rubber in asphalt mixtures began in the Fall of 2013. A final report will be prepared next quarter. GDOT is transferring funds into the Superpave account to conduct an evaluation of the effects of flat and elongated aggregate properties on SMA performance. This work is expected to begin next quarter. |
| **Significant Results:** |
| **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).**The budget was increased by $180,000 this quarter due to increased contributions from three agencies to cover additional research and training needs. |

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| **Potential Implementation:** The climate data being obtained will be useful for Louisiana by providing specific climate data that is more compre- hensive and more accurate than the original data used in the MEPDG development.The crumb rubber research for Puerto Rico is being used to verify the potential benefit of using ground tire rubber in asphalt mixes in order to preserve the environment.The training and certification courses being developed and taught will help ensure qualified technicians who are familiar with agency specifications and test procedures will be involved in the asphalt binder and mixture acceptance process.Performance testing on OGFC mixtures will be used to improve specifications by evaluating certain aggregate types andtheir material properties. |