

Period Covered: Through June 30, 2006 (Quarterly Report)

ALDOT Progress Report for the

## State Planning and Research Program

<b>PROJECT TITLE:</b> Southeast Superpave Center		
<b>PROJECT MANAGER(S):</b> Don Watson and E.R. Brown (334) 844-6857	<b>SPR Project No:</b> TPF-5(037) ALDOT Research Project No. 930-370P	<b>Project is:</b> <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> RESEARCH & DEVELOPMENT
<b>Annual Budget</b>	<b>Multi Year Project</b> Total Budget for Project 2,256,381.00 Total Cost to Date for Project 1,793,410.91	

Several projects are being conducted by the Southeastern Superpave Center. A summary of the projects is listed below.

1. ***Training*** - Don Watson

During this period several training workshops were conducted for ALDOT and include Asphalt Plant level I, Roadway Technology, Aggregate Technology, and Nuclear Safety. In addition, NCAT staff has taught a two-week Professor Training class at the NCAT facility and a special workshop on SMA and OGFC mixtures for the New Jersey DOT.

2. ***Characteristics of Tire/Pavement Interaction On Noise in HMA Pavements*** – Andre Smit

NCAT has tested over 320 pavement surfaces from Michigan, Alabama, New Jersey, Maryland, Colorado, Nevada, California, Arizona, Florida and Texas. In addition to the above work, a second noise study was recently completed for Colorado DOT on various mix types in that state. A report has being submitted and is being revised based on reviewer comments.

3. ***4.75 mm Study*** – Randy West

Eight states have agreed to participate in a study to further develop a 4.75 mm Mix. The study will refine and field validate the mix design procedure and specification criteria. The work will include two phases: a laboratory phase to refine the design criteria, and a field validation through construction of experimental test sections.

This quarter mix design work was conducted for several of the aggregate sources used in this study.

#### 4. **Forensic Pavement Evaluations** – Don Watson and Randy West

During this report period a forensic evaluation was conducted on the Corridor Z project near Hamilton for ALDOT to determine possible reasons for premature pavement failures. The Corridor Z project failed due to stripping problems from moisture trapped within the pavement structure. These problems were due to edge-drains not being maintained and a porous base drainage layer was not placed during original construction. A report has been written that identified potential causes and prevention measures for the future.

#### **Work to be Performed next Report Period**

The Southeast Superpave Center will continue to work on the above listed projects until they are complete.

- ◆ Training sessions for ALDOT personnel will continue. Special training is planned during July for Florida and Georgia DOT for asphalt mix design. In addition, a delegation from Pakistan will receive a one-week training course in August. GDOT has also scheduled three workshops for binder testing in order to certify binder testing technicians.
- ◆ Work will continue on the 4.75 mm Mix study.
- ◆ The quiet pavement test sections for the south tangent of the NCAT Test Track should be constructed by East Alabama Paving during the test track reconstruction/resurfacing.
- ◆ As work begins on the test track, several of our lab technicians and engineers will provide assistance for quality control verification testing.

#### **STATUS AND COMPLETION DATE**

Percentage of work completed to date for total project \_\_\_\_\_ 92.45 \_\_\_\_\_

Project is:  
  X   on schedule      \_\_\_\_\_ behind schedule, explain:

Expected Completion Date: \_\_\_\_\_ September 30, 2006 \_\_\_\_\_

Please note that this project has continued with renewed requests for services and additional funding obligations and may be extended beyond the current Expected Completion Date listed above.