

Period Covered: Through September 30, 2005 (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 1,815,826.00 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) *Utilization of Automated Real-Time Testing for HMA Quality Control and Assurance* – Randy West

This project proposes using the following Automated QC Methods

- a. Belt Sampling
- b. Moisture Content
- c. Gradation
- d. Binder Viscosity
- e. Binder Flow Meter
- f. HMA Temperature

The automated equipment has been placed on the existing HMA plant of East Alabama Paving located in Opelika, Alabama. This project will evaluate the consistency of the automated equipment and data collection systems and compare data to standard QC sampling and testing results.

During this report period Mr. Randy West has given several presentations at various agency and industry meetings and interest in advancing this technology appears to be strong.

(2) *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. NCAT staff has met with ALDOT training personnel and developed a training schedule for FY'06.

(3) *Characteristics of Tire/Pavement Interaction On Noise in HMA Pavements* - Doug Hanson

NCAT has tested over 320 pavement surfaces from Michigan, Alabama, New Jersey, Maryland, Colorado, Nevada, California, Arizona, Florida and Texas. Agency test sections at the NCAT Test Track are also being monitored every 1 million ESALs to evaluate the effect of age and traffic on pavement noise.

NCAT is planning to construct test sections with various mixes and layer thickness to evaluate the ability to build quieter pavements. Plans are currently underway to place such test sections on the inside lane of the NCAT test track for evaluation. FHWA will be sponsoring the project.

(4) *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.

**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. Work will begin on the new 4.75 mm Mix study. The quiet pavement test sections should be constructed by East Alabama Paving during the next report period.

**STATUS AND COMPLETION DATE**

Percentage of work completed to date for total project 92.45

Project is: 100.00 percent  
X on schedule \_\_\_\_\_ behind schedule, explain:

Expected Completion Date: May 31, 2005