

Period Covered: Through December 31, 2004 (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. 930-370	<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 2,790,826.00 Total Cost to Date for Project 1,773,009.69	
<p>Several projects are being conducted by the Southeastern Superpave Center. A summary of the projects is listed below.</p> <p>(1) <b>New Generation Open Graded Friction Course Mix Design Procedure</b> – Don Watson</p> <p>Four agencies placed OGFC projects last year and two more agencies have placed projects this year. Seven projects (two from Texas) have been selected for on-site testing and field observation. Projects have been selected in Alabama, Arizona, Colorado, Georgia, Texas (2 projects), and South Carolina.</p> <p>We have been notified that Colorado DOT has covered up their OGFC test section. The area was in a cold mountainous region that had a severe snow/ice storm. Two accidents occurred on the OGFC section after the snow storm due to a film on the surface from the magnesium chloride that was used as a deicing chemical. NCAT is currently checking with other agencies that have placed OGFC in a cold environment to see if this problem is an isolated problem or if there is some type of preventive action that could be implemented to prevent this in the future.</p> <p>(2) <b>Utilization of Automated Real-Time Testing for HMA Quality Control and Assurance</b> – Randy West</p> <p>This project proposes using the following Automated QC Methods</p> <ol style="list-style-type: none"><li>Belt sampling</li><li>Moisture Content</li><li>Gradation</li><li>Binder Viscosity</li><li>Binder Flow Meter</li><li>HMA Temperature</li></ol> <p>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</p>		

automated equipment and data collection systems and compare data to standard QC sampling and testing results.

During this report period a delegation of contractor and Georgia DOT personnel visited NCAT and the plant site to learn more about this technology. Mr. Randy West has given several presentations at various agency and industry meetings during this report period and interest in advancing this technology appears to be strong.

(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 proposing a research study to build test sections with various mixes and layer thickness to evaluate the ability to build quieter pavements. Discussions are currently underway about the possibility of placing such test sections on the inside lane of the NCAT test track for evaluation.

(4) **Training** - Don Watson

During this period several training workshops were planned. Georgia DOT has requested a workshop for Superpave Mix Design Certification for 15 personnel and an agenda and schedule has been developed. One of their binder personnel has been scheduled for training and certification in performing the asphalt binder tests. Two technicians from Florida were also tested for Superpave Mix Design certification.

**ACTIVITIES NEXT REPORTING QUARTER:**

The Southeast Superpave Center will continue to work on the above listed projects until they are complete. Alabama DOT has also requested several training sessions for personnel.

In a recent meeting with the Superpave Center Management Committee in December, 2004 interest was also expressed in conducting studies for:

- Use of 4.75 mm mixes
- Quiet Pavements research
- Evaluate HMA mixtures for new design guide parameters

**PROBLEMS ENCOUNTERED OR ANTICIPATED:**

No significant problems were encountered during the last quarter or are anticipated in the next quarter.

**STATUS AND COMPLETION DATE**

Percentage of work completed to date for total project \_\_\_\_\_ 91.4 \_\_\_\_\_  
Project is: 100.0

\_\_\_\_X\_\_\_\_ on schedule \_\_\_\_\_ behind schedule, explain:

Expected Completion Date: \_\_\_\_\_ May 31, 2005 \_\_\_\_\_