

Period Covered: Through June 30, 2005 (Quarterly Report)

ALDOT Progress Report
for the

State Planning and Research Program

PROJECT TITLE: Southeastern Superpave Center		
PROJECT MANAGER(S): Don Watson and E.R. Brown (334) 844-6857	SPR Project No: TPF-5(037) ALDOT Research Project No. 930-370	Project is: <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> RESEARCH & DEVELOPMENT
Annual Budget	Multi Year Project Total Budget for Project 2,790,826.00 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) New Generation Open Graded Friction Course Mix Design Procedure
– Don Watson

Six agencies have placed OGFC projects. Seven projects have been selected for on-site testing and field observation. Projects were selected in Alabama, Arizona, Colorado, Georgia, Texas (2 projects), and South Carolina. Colorado DOT has covered up their OGFC test section due to safety considerations encountered after a snow storm.

(2) 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, a delegation of professors from around the world visited NCAT for a Professor Training Course and visited 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. 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) Training - Don Watson

During this period several training workshops were planned. Georgia DOT has requested a workshop for Superpave Mix Design Certification for 6 personnel and an agenda and schedule has been developed. Florida also conducted a workshop for Superpave Mix Design certification. During this report period NCAT also hosted a two week Professor Training course. Several courses have been conducted for ALDOT and include Asphalt Plant level I, Roadway Technician level I, Aggregate Technician, and Nuclear Safety.

(5) Aggregate Testing – Don Watson

During this period aggregate testing was performed on three types of material (9 samples) for Kentucky DOT. Test results for aggregate properties were reported to Kentucky Transportation Cabinet.

(6) 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.

ACTIVITIES NEXT REPORTING QUARTER:

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.

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 _____ 92.45 _____

Project is: 100.00 percent
 X on schedule _____ behind schedule, explain:

Expected Completion Date: _____ September 30, 2005 _____