Period Covered: July 1, 2003 through September 30, 2003

KSDOT Progress Report for the

State Planning and Research Program

PROJECT TITLE: Midwest Accelerated Testing Pooled Fund		
PROJECT MANAGER:	Project No: SPR-3(047) RE-0165-01	Project is:
Andrew Gisi, P.E., TAC Chair	RE-0103-01	PLANNING
Richard L. McReynolds, P.E., Admin. Contact Dr. Stefan Romanoschi, KSU, PI		X RESEARCH & DEVELOPMENT
Di. Stefan Komanoschi, KSU, Fi		DEVELOFMENT
Annual Budget (active projects) FY 2002: \$269,992	Multi Year Project Budget	
11 2002. 4207,772		
FY 2002 Project: The objectives of this research were to determine the structural performance of foamed asphalt stabilized recycled		
asphalt pavement (RAP) material when use as a base layer underneath asphalt concrete surface layers. The experiment consisted of		
constructing four pavements having the same asphalt concrete surface layer, of 3.5 inches in thickness. On three pavement structures,		
the base layer was made of foamed asphalt stabilized RAP. The base layer thicknesses were 6, 9 and 12 inches. The fourth pavement		
structure was built with a conventional crushed stone base layer. Half a million passes of ATL machine were applied to each of the		
four pavements. The bituminous base constructed using recycled asphalt pavement (RAP) stabilized with foamed asphalt performed		
much better than expected by the design. The measured stresses and strains as well as the rutting observed on the four pavements		
clearly indicated that foamed asphalt stabilization is an efficient technology for utilizing recycled asphalt pavement (RAP) material in		
the construction of base layers for flexible pavement, especially when the RAP material is contaminated during milling of distressed		
HMA layers with soil or crushed rock.		
Progress: The full-scale accelerated testing of pavements constructed for FY 2002 project was finalized during September 2002. The four pavements failed by rutting The post-mortem analysis consisting of trenching and coring of the four pavements was conducted in October 2002. Note: The FY 2003 and 2004 work is under project TPF-5(048). The analysis of the performance and response data measured on the four pavements, as well as the data collected during the post-mortem analysis was completed. The final report was submitted to the Project Monitor.		
SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:		
FY 2002 Project: The final report was submitted to the Project Monitor.		
STATUS AND COMPLETION DATE		
Percentage of work completed to date for total project is: 100		
on schedule x behind schedule, explain:		
FY 2002 project testing and reporting got behind schedule because of equipment repairs and modifications that were required on earlier experiments		
Expected Completion Date: August 1, 2003		