VTRC File No:	

Virginia Transportation Research Council Contract/Grant Progress Report

Project No: TPF5 (045) Starting Date: 3/1/2003 Target Completion Date: 12/31/07			
Project Title: Development of Performance Guidelines for the Selection of Bituminous Hot-Poured			
Crack Sealants			
Performing Agency: <u>University of Illinois</u>			
Principal Investigator(s): Imad L. Al-Qadi			
Date of This Report: 8/31/07 Next Report Due Date: 11/30/07			
Project Description			
The project will establish performance guidelines for the proper selection of hot-poured crack sealants.			
The guidelines will be in the spirit of the Performance Grade (PG) system for bituminous binders with			
some modifications to the equipment, data analysis procedure, and testing methods.			
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Research Activities Pursued This Period:			
- For DTT, testing of selected sealants collected from the field has been completed. Comprehensive			
project report is being prepared.			
- For BBR, preparation of the comprehensive project report is underway; a draft was submitted to the			
panel.			
- For DTT adhesion, experimental program for seven sealants and four substrates has been completed.			
For Blister test, testing of non-aged sealants was completed, variation within laboratory was checked			
and test procedure was established. Seven aged and non-aged sealants with aluminum were tested			
using the finalized test procedure. Blister test procedure is being used to study the effect of sealant			
viscosity, loading rate and temperature on interfacial bonding. The comprehensive report for adhesion			
DTT and blister test is being prepared.			
- A meeting with review panel will take place to review the adhesion procedure on October 22 in			
Champaign, IL on October 22.			
Problems Encountered:			
No major problems were encountered			
Activities Planned for Next Period:			
- The threshold for the BBR, DTT and Adhesion test will be determined.			
- The executive summary of the BBR, cohesive and adhesive DTT, and Blister will be prepared.			
Budget Status:			
Current FY Project Budget: \$74,236* Project Budget Lifetime: *\$820k			
Current FY Expenditures: \$185,323 (as of 07/31/07) Expenditures LTD: \$741,649			
Percent Expended this FY: 250%* Percent Expended LTD: 90.5%			
* this represent the number in the budget; the project was extended to 12/31/07			
Timetable: Project is (check):			
On Schedule			
Behind Schedule *			

Preparer's Signature:	<u>Imad Al-Qadi</u>	Date: 08/31/07

Ahead of Schedule