

Transportation Pooled Fund Program

Project Title: Evaluation of Modified Performance Grade Binders in Thin Lift Maintenance Mixes, Surface Mix, and a Reflective Crack Relief Layer Mix

Project Manager and Phone Number: Stephen Pepin 617-973-8051	Project No: TPF-5(146)	Project is: <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> R&D
Reporting Period: January through March 2010	Multi Year Project Yes	

Description of Work Performed and Progress:

Accomplishments for the Quarter of January through March 2010

1. UMass Dartmouth delivered the low temperature creep compliance specimens fabricated to the consultant (Jo Daniel - University of New Hampshire). These specimens will be tested in accordance with AASHTO T322 "Determining the Creep Compliance and Strength of Hot-Mix Asphalt (HMA) Using the Indirect Tensile Test Device."
2. Low temperature cracking mixture specimens were fabricated using the six binders for this study. Mixture specimens were fabricated utilizing the two different aggregate source types for this project (Aggregate Industries crushed stone and Pike Industries gravel). These specimens were tested in the Asphalt Concrete Cracking Device (ACCD) to determine their temperature cracking properties.
3. UMass Dartmouth completed analysis of Asphalt Concrete Cracking Device (ACCD) data for the mixture fabricated using the six binders and two aggregate sources for this study.
4. UMass Dartmouth continued configuring the Asphalt Mixture Performance Tester (AMPT) to perform push-pull test for fatigue evaluation of the mixtures in this study. Several test trials were completed using different types of glue to mount the specimens. One type of glue utilized performed well.

STATUS AND COMPLETION DATE

Percentage of work completed to date for total project
 Project is: 60%

X on schedule _____ behind schedule, explain:

Expected Completion Date: Dec 31, 2010

Project Manager