

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): FHWA

INSTRUCTIONS:

Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

Transportation Pooled Fund Program Project # <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> <p style="text-align: center;">TPF-5(178)</p>	Transportation Pooled Fund Program - Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input checked="" type="checkbox"/> Quarter 4 (October 1 – December 31) <p style="text-align: right;">Year: 2011</p>	
Project Title: <p style="text-align: center;">Implementation of the Asphalt Mixture Performance Tester (AMPT) for Superpave Validation</p>		
Name of Project Manager(s): <p style="text-align: center;">Jeff Withee</p>	Phone Number: <p style="text-align: center;">202-366-6429</p>	E-Mail <p style="text-align: center;">jeff.withee@dot.gov</p>
Lead Agency Project ID:	Other Project ID (i.e., contract #):	Project Start Date: <p style="text-align: center;">September 2008</p>
Original Project End Date: <p style="text-align: center;">September 2011</p>	Current Project End Date: <p style="text-align: center;">December 2013</p>	Number of Extensions:

Project schedule status:

- On schedule
 On revised schedule
 Ahead of schedule
 Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
\$3,405,346	\$1,488,720	44%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
1%	\$35,686	63%

Project Description:

This pooled fund study is open to any highway agency interested in using simple performance tests to aid in material characterization for design and analysis of flexible pavements. The objectives of this pooled fund study are to:

- 1) Nationally procure the AMPT for highway agencies interested in obtaining and using the AMPT to characterize asphalt mixtures designed using Superpave technology
- 2) Provide support in training technicians to use the AMPT to perform the proposed standard practices for measuring dynamic modulus, flow number, and flow time of asphalt mixtures compacted using the Superpave Gyratory Compactor (SGC)
- 3) Advance the nation-wide implementation and use of the AMPT for assessing performance of asphalt mixtures over a wide range of climatic conditions, materials, and structures.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

- The NHI Course #131118 - Asphalt Mixture Performance Tester course video DVD was completed by the training contractor. The contractor has begun producing the video set copies that will be distributed to pooled fund participants.
- The AMPTs for New York, Connecticut(2), Illinois, Alabama, Oregon, and FHWA-CFLHD were delivered, setup and installed by the equipment vendors.
- The next round of AMPT orders for 6 additional units was in progress.
- Four focus areas for AMPT implementation were identified from a list of potential activities based on input from Pooled Fund participating agencies and the Asphalt Mixture & Construction Expert Task Group. The four priority activities were: Flow Number Testing Parameters & Round Robin, Round Robin Testing for Dynamic Modulus, MEPDG Input Parameters, and a National Workshop for AMPT Users.
- Planning work on the implementation phase activities began through a cooperative agreement between FHWA and the National Center for Asphalt Technology.

Anticipated work next quarter:

- The next round of AMPT orders for North Carolina, Maine, Tennessee, New Jersey, Maryland, and Kentucky will be finalized for equipment delivery to begin in the 1st Quarter of 2012. Delivery and installation is expected to continue into the 2nd Quarter of 2012 for some states in this group.
- Contract work to prepare for the following round of equipment orders will continue.
- Preparations for the AMPT national workshop and round robin testing programs will continue with the National Center for Asphalt Technology.

Significant Results:

- To date, a total of 57 technicians and engineers from pooled fund participating agencies have been trained on the Asphalt Mixture Performance Tester through NHI Course # 131118.
- Thirteen (13) AMPTs have been ordered, delivered, and installed for pooled fund participant agencies.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).

- Customs issues for shipping AMPT units outside of the continental United States has complicated the equipment orders for some of the participating agencies. FHWA's program office and acquisitions office are working with the equipment vendors to overcome these challenges.

Potential Implementation:

The AMPT evaluates asphalt mixture properties to assess potential performance. Transportation agencies can use the AMPT to: develop inputs for the structural design of flexible pavements, evaluate new asphalt mixtures including warm mix asphalt (WMA) and high reclaimed asphalt pavement (RAP) mixes, and to obtain information helpful in monitoring asphalt mixes and performing quality assurance.