

**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 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 checked="" type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)		Year: <p align="center">2011</p>
Project Title: <p align="center">Implementation of the Asphalt Mixture Performance Tester (AMPT) for Superpave Validation</p>				
Name of Project Manager(s): <p align="center">Jeff Withee</p>		Phone Number: <p align="center">202-366-6429</p>		E-Mail <p align="center">jeff.withee@dot.gov</p>
Lead Agency Project ID:		Other Project ID (i.e., contract #):		Project Start Date: <p align="center">September 2008</p>
Original Project End Date: <p align="center">September 2011</p>		Current Project End Date: <p 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	\$1,453,034	43%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
12%	\$392,726	58%

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 final scheduled session of the NHI Course #131118 - Asphalt Mixture Performance Tester was delivered, in August, training ten technicians and engineers. All staff from pooled fund participating agencies have now completed their training.
- The initial version of the NHI Course #131118 - Asphalt Mixture Performance Tester course video DVD was completed by the training contractor. The video set has been reviewed and commented on for revisions.
- The AMPT for Wisconsin was setup and installed by the vendor. Additional AMPT units for New York and Alabama are being manufactured for future delivery.
- The next round of AMPTs were ordered for Illinois, Connecticut(2), Oregon, and FHWA. Equipment vendors proceeded to manufacture the ordered AMPTs for delivery.
- Potential activities for the third phase of the project, implementation support, were sent out to all pooled fund participating agencies and the Asphalt Mixture & Construction Expert Task Group for comment and prioritization.

Anticipated work next quarter:

- AMPT delivery and installation will continue to pooled fund participants for equipment on order. The currently on order AMPTs for New York, Alabama, Illinois, Connecticut(2), Oregon, and FHWA are expected to be delivered in 4th Quarter 2011.
- Contract work and placement of orders will continue for the next round of AMPT equipment deliveries.
- Input on the potential AMPT implementation support activities will be gathered from pooled fund participant agencies and the Asphalt Mixture & Construction Expert Task Group. The input will be compiled and summarized back to both groups. FHWA will initiate the prioritized implementation support activities.

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 and 6 AMPTs have been delivered to 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).

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.