TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT):	Federal Highw	ay Administration (FHV	VA)		
INSTRUCTIONS: Project Managers and/or research project inve- quarter during which the projects are active. I each task that is defined in the proposal; a pe- the current status, including accomplishments during this period.	Please provide rcentage comp	a project schedule stat pletion of each task; a co	us of the research aconcise discussion (2	ctivities tied to or 3 sentences) of	
Transportation Pooled Fund Program Project #		Transportation Pooled Fund Program - Report Period:			
(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX	⁽⁾ □Quarter 1 (January 1		,		
	□Quarter 2 (April 1 – 3		June 30)	Year:	
TPF-5(178)			September 30)	2014	
	⊈ Quarter 4 (October		1 – December 31)		
Project Title:					
Implementation of the Asphalt N	Mixture Perforr	nance Tester (AMPT) fo	r Superpave Validati	on	
Name of Project Manager(s):	Phone Number:		E-Mail		
Jeff Withee	20	2-366-6429	jeff.withee@	Ddot.gov	
Lead Agency Project ID:	Other Project ID (i.e., contract #):		Project Start Date: September 2008		
Original Product For I Posts	O Due	Cont Ford Date	·		
Original Project End Date: September 2011	Current Project End Date: December 2015		Number of Extens	ions:	
Project schedule status:					
☐ On schedule	ule		☐ Behind schedule		
Overall Project Statistics:					
Total Project Budget	Total Cost to Date for Project		Percentage of Work Completed to Date		
\$3,952,940	\$	2,991,292	76%	6	
Quarterly Project Statistics:					
Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter		Total Percentage of Time Used to Date		

\$80,744

86%

2%

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.):
- Work on implementation phase activities continued through a cooperative agreement between FHWA and the National Center for Asphalt Technology (NCAT.)
+ Friction Reducer Study: This evaluation study on the potential for spray silicone to improve the consistency and reduce the effort in fabrication of greased latex friction reducers continued. Follow-up evaluations, based on feedback from preliminary results, were underway.
- Work on implementation phase activities continued through a cooperative agreement between FHWA and the Asphalt Institute.
+ Specimen Fabrication Ruggedness Study: Additional statistical review of the results was conducted. + Fatigue Testing Study: The study is underway to evaluate AMPT fatigue testing alongside other fatigue and cracking tests.
- One AMPT was ordered for DE. The AMPT previously delivered to PR was installed.

Anticipated work next quarter:

- Work on the implementation support activities will continue with the National Center for Asphalt Technology. Details for the next quarter are listed after each activity.
 - + Friction Reducer Study: Work will continue on the final stages of the evaluation followed by results distribution.
- Work on the implementation support activities will continue with the Asphalt Institute. Details for the next quarter are listed after each activity.
 - + Specimen Fabrication Ruggedness Study: Work be finalized to complete the study.
- + Fatigue Testing Study: Specimen fabrication work and initial testing continues based on the study work plan. Preliminary results are expected next quarter.

- The A	TAMA	ordered for	DF is	expected	to be	delivered	and	installed

Significant Results:

- A total of 57 technicians and engineers from pooled fund participating agencies and 82 overall have been trained on the Asphalt Mixture Performance Tester through NHI Course # 131118.
- Twenty-eight (28) AMPTs have been ordered, delivered, and installed for pooled fund participant agencies. In addition, one AMPT has been ordered and is pending delivery.
- The National Pooled-Fund Workshop on the AMPT brought together over 70 members of the AMPT user community representing state DOTs, consultants, equipment vendors, universities, and FHWA to share best practices and identify future AMPT implementation needs.
- A synthesis report titled "Use of AMPT for Characterizing Asphalt Material Inputs for Pavement ME Design Implementation" was completed to document best practices.
- The AMPT Pooled-Fund Interlaboratory Study was completed and a final report on testing variability and investigation of air void effects is available.

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), high reclaimed asphalt pavement (RAP) mixes, and recycled asphalt shingles (RAS) mixes, and obtain information helpful in monitoring asphalt mixes and performing quality assurance.