

Transportation Pooled Fund Program

Project Title: “Improving the Quality of Pavement Profiler Measurement”		
Project Manager and Phone Number: Robert L. Orthmeyer, P.E. (708) 283-3533 robert.orthmeyer@.dot.gov	Project No: TPF 5(063)	Project is: <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> R&D
Reporting Period: October 1 through December 31, 2008	Multi Year Project Eight Year	
Description of Work Performed and Progress: FHWA is in the process of implementing new procedures for managing funds for FHWA led pooled fund studies. More information to follow. Please see the pooled fund study web site for details on funding: www.pooledfund.org . There are now 21 participating State Highway Agencies with the addition of Louisiana. A Technical Advisory Committee (TAC) meeting was conducted October 30 & 31 st at the end of the RPUG annual meeting in Austin, TX. The participating agencies were updated on the study progress. There were 16 participants in the session that included attendance by our newest partner, LA DOTD. An update was provided by UMTRI on the benchmark testing contract and by Transtec on the latest update of ProVAL to version 3.0. The action items included checking with other DOT's regarding the establishment of regional profiler certification centers, develop an automated faulting activity proposal for FHWA FALCON process and send a copy of the automated faulting Statement of Work to the entire TAC. <i>The group voted to extend the pooled fund study for two more years, seek additional participating agencies and seek additional funds. A notice will be sent out through the pooled fund study website once the extension documents have been approved.</i>		
The following list of priorities was reviewed and approved by the TAC: <ol style="list-style-type: none"> 1. Reference Profile Device (development of) <ol style="list-style-type: none"> a. Benchmark Testing b. Reference Device 2. Critical Profile Accuracy Requirements (definition) - Completed 3. Construction Acceptance and Correction Software (ProVAL: www.roadprofile.com) - Ongoing 4. Certification / Validation Sites – On Hold for completion of Priority One. 5. Evaluating Upper Limits of Single Accelerometer and Single Height Sensor – Contractor is on board. 6. Emerging Technology That Enhances Profile Measurement - Ongoing 		
Priority One – Reference Device(s): The Benchmark Testing contractor recommendation has been processed by the FHWA Office of Acquisition Management. An award was made on May 21, 2007 to the University of Michigan Transportation Research Institute (UMTRI). The contractor has requested an extension of the contract to December 15, 2009. FHWA is in the process of reviewing the extension request.		
FHWA has issued four awards under the Broad Agency Announcement process that was used to solicit interest in developing a potential profile reference device. The awards were to: <ol style="list-style-type: none"> 1. APR Consultants 2. International Cybernetics Corporation - ICC 3. Surface Systems International, LLC -SSI 4. Virginia Technical Institute 		

Priority Three: ProVAL 2.73 Is Released

Ever feel frustrated doing hundreds of cross correlations to produce reports for profiler repeatability tests and accuracy tests (as in the [AASHTO PP49 Standard Practice for Certification of Inertial Profiling Systems](#))? The pain is no more ... when you have ProVAL 2.73!

A new feature, Profiler Certification Module, will make this process much easier with simply a few mouse clicks! Also, the classic Cross Correlation module is now revamped and added with powerful features! With ProVAL 2.73, you can now easily evaluate whether a profiler can produce repeatable and accurate results.

ProVAL workshops were conducted in Austin, TX as part of the RPUG annual meeting. Sessions are also scheduled for Arkansas and on Sunday during TRB.

The latest version (2.73) of ProVAL is available for download free of charge at the website: www.roadprofile.com.

ProVAL 3.0 is currently under development and scheduled for release at the end of December 2008.

Priority Five - Evaluating Upper Limits of Single Accelerometer and Single Height Sensor: The project has begun with Dr.'s Nicolas Gagarine and James Mekemson of Starodub, Inc. providing the research and report. The phase I report has been provided to FHWA. The second phase will quantify the aspects identified in the first phase report.

Funding - There is currently \$1,150,600.00 of obligated funds from the participating SHA's in the pooled fund study account. A total of \$1.43 Million has been committed to the project over the four year time frame from the participating SHA's. When combined with FHWA funding, a total of \$2,007,700 has been committed to this pooled fund study.

Participating State Highway Departments: California, Colorado, Connecticut, Florida, Georgia, Illinois, Kansas, Kentucky, Louisiana, Maryland, Mississippi, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, South Dakota, Texas and Wisconsin. Also assisting FHWA Federal Lands, FHWA LTPP, and FHWA Office of Pavement Technology (HIPT).

Note: A web site has been developed to manage all of the pooled fund study proposals, solicitations and projects. The TPF-5(063) Profile Quality study can be found at: <http://www.pooledfund.org/projectdetails.asp?id=280&status=4>.

NEXT MEETING: There will be a NHI webinar training session on ProVAL 3.0 for the TAC upon completion of the BETA testing. This has not been scheduled.

STATUS AND COMPLETION DATE

Percentage of work completed to date for total project

Project is: 65%

_____ on schedule X behind schedule, explain:

Existing contracts and funding mechanisms within FHWA have delayed the study progress. Contracts have been awarded and the study dates have been extended to allow completion of the study priorities.

Expected Completion Date: September 30, 2011

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Project Manager