

## Transportation Pooled Fund Program

<b>Project Title: “Improving the Quality of Pavement Profiler Measurement”</b>		
<b>Project Manager and Phone Number:</b>  <b>Robert L. Orthmeyer, P.E.</b> (708) 283-3533 robert.orthmeyer@fhwa.dot.gov	<b>Project No:</b>  <b>TPF 5(063)</b>	Project is:  <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> R&D
<b>Reporting Period:</b>  April 1 through June 30, 2007	<b>Multi Year Project</b>  Four Year	
<b>Description of Work Performed and Progress:</b>  <p><b>Priority One – Reference Device(s):</b> The Benchmark Testing contractor recommendation has been processed by the FHWA Office of Acquisition Management. An award was made on May 21<sup>st</sup> to the University of Michigan Transportation Research Institute (UMTRI). The contract will be for a 20 month period.</p> <p>The Broad Agency Announcement (BAA) by FHWA has been issued for the solicitations for the actual pavement profiling reference device. The proposals have been received and have been reviewed by the study Technical Advisory Panel. Recommendations have been sent to the FHWA Office of Acquisition Management. It is anticipated that multiple awards will be made in the near future.</p> <p>The following list of priorities is adjusted for priority one and has been reaffirmed by the TAC:</p> <ol style="list-style-type: none"> <li>1. Reference Profile Device (development of) – Recommendations sent to FHWA Office of Acquisition Management with awards anticipated in the near future.             <ol style="list-style-type: none"> <li>a.) Golden Footprint</li> </ol> </li> <li>2. Critical Profile Accuracy Requirements (definition) - Completed</li> <li>3. Construction Acceptance and Correction Software (ProVAL: <a href="http://www.roadprofile.com">www.roadprofile.com</a>) - Ongoing</li> <li>4. Certification / Validation Sites – On Hold for completion of Priority One.</li> <li>5. Evaluating Upper Limits of Single Accelerometer and Single Height Sensor – Contractor is on board.</li> <li>6. Emerging Technology That Enhances Profile Measurement - Ongoing</li> <li>7. Portable Validation Device Feasibility – On Hold.</li> <li>8. Lightweight Profilers Unique Problems – Ongoing.</li> <li>9. Portable Validation Device Implementation. On Hold.</li> </ol> <p><b>Priority Two:</b> Completed. The “Defining of Critical Profile Accuracy Requirements” final report was delivered to the FHWA. The project was conducted by Steve Karamihas from the University of Michigan Transportation Research Institute (UMTRI). A copy of the final draft is available that the pooled fund web site: <a href="http://www.pooledfund.org/projectdetails.asp?id=280&amp;status=4">http://www.pooledfund.org/projectdetails.asp?id=280&amp;status=4</a>.</p> <p><b>Priority Three:</b> The latest version (2.72) of ProVAL is available as of January for download free of charge at the website: <a href="http://www.roadprofile.com">www.roadprofile.com</a>.</p> <p><b>Priority Five - Evaluating Upper Limits of Single Accelerometer and Single Height Sensor:</b> 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</p>		

the aspects identified in the first phase report.

**Funding** - There is currently \$1,100,600.00 of obligated funds from the participating STD'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, 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:** The next full TAC meeting will be held in Bloomington, MN on July 17 and 18 to review project status for Priority One, review study priorities and the overall status of the study.

#### STATUS AND COMPLETION DATE

Percentage of work completed to date for total project

Project is: 60 %

         on schedule   X   behind schedule, explain:

The proposals for Priority One Bench Mark Testing and the Reference Device BAA were reviewed during this quarter. Unanticipated delays in procurement using FHWA procedures. Funds have not been moved to the DELPHI accounting system in a timely manner – FHWA issue.

Expected Completion Date: September 30, 2007

Robert L. Orthmeyer, P.E.  
**Project Manager**