

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@fhwa.dot.gov	Project No: TPF 5(063)	Project is: ___ PLANNING <u>X</u> R&D
Reporting Period: April 1 to June 30, 2005	Multi Year Project Four Year	
Description of Work Performed and Progress: The following list of priorities remains the same: <ol style="list-style-type: none"> 1. Reference Profile Device (development of) 2. Critical Profile Accuracy Requirements (definition) 3. Construction Acceptance and Correction Software (acquisition of existing) 4. Certification / Validation Sites 5. Evaluating Upper Limits of Single Accelerometer and Single Height Sensor 6. Emerging Technology That Enhances Profile Measurement 7. Portable Validation Device Feasibility 8. Lightweight Profilers Unique Problems 9. Portable Validation Device Implementation <p>PRIORITY THREE: The Connecticut DOT released the recorded version of the March ProVAL workshop in May. A link to the recorded session along with a DVD of the session was distributed to the member agencies and their respective FHWA DO counterparts. This will allow a viewer to follow the workshop presentations at their discretion.</p> <p>The latest version of ProVAL is available for download free of charge at the website: www.roadprofile.com. Additional upgrades that were defined through a task order are being worked on by Transtec. A BETA version will be available by August 20th for a 30 day testing. Plans are to have the BETA testing completed prior to RPUG in September.</p> <p>At the June meeting in Chicago, the Technical Advisory Committee (TAC) agreed to obtain input from the participating agencies regarding the next ProVAL upgrades. Submitted priorities will be reviewed and selected in July using the NHI web conference format.</p> <p>PRIORITY TWO: It was agreed by the TAC to pursue this priority before asking for a reference device to be constructed. The “Defining of Critical Profile Accuracy Requirements” project was issued to the University of Michigan Transportation Research Institute (UMTRI). UMTRI submitted their draft report to the TAC at the June meeting in Chicago. Verbal comments were provided and written comments were sent to UMTRI to address in their final report. Additional funds and time will be provided to have the report Section 508 compliant. Final report is due August 8th.</p> <p>Priority One – Reference Device(s): It is anticipated that a Request for Proposals will be finalized by the end of final delivery of Priority Two.</p>		

Priority Five - Evaluating Upper Limits of Single Accelerometer and Single Height Sensor: A research statement has been developed by the participating agency technical representatives for South Dakota and Florida. The problem statement was reviewed and anticipated to be advertised during the next quarter – July 2005. Approximately \$130,000 will be reserved for this award.

Funding - There is currently \$989,800.00 of obligated funds from the participating STD's in the pooled fund study account. Of this \$102,025 has been awarded to UMTRI for Priority Two. Priority three has \$147,239 set aside for funding from the pooled fund study. (Funding from the FHWA HIPT is being used to allow the acquisition of the Bumpfinder software and ProVAL support to proceed.) 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 technical advisory panel will meet in Columbus, OH on September 28th and 29th to review the Priority Two final report, review Priority Five proposals and Priority One: "Develop a Reference Device" proposals.

STATUS AND COMPLETION DATE

Percentage of work completed to date for total project
Project is: 40 %

 on schedule X behind schedule, explain:

The Technical Advisory Committee has recommended a deadline extension on the critical accuracy requirements project until analysis and results of the FHWA Profiler Roundup are available. This was recommended in order to take full advantage of the synergistic benefits of the two related research projects. Contracts for Priority One are anticipated to begin during the first quarter of FHWA FY2006.

Expected Completion Date: September 30, 2007

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Project Manager