

Pooled Fund Project Status Report

April 1, 2011 through June 30, 2011

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| <i>Project Title</i> TPF-5(135) Tire/Pavement Noise Research Consortium | | <i>Agmt./Task No.</i> Y10704 | <i>Item No.</i> | <i>Agency Bgt. No.</i> |
| <i>Research Agency</i> WSDOT | | <i>Start Date</i> 7/1/06 | <i>Estimated Completion</i> 8/31/11 | <i>Revised Completion</i> |
| <i>Principal Investigator(s)</i> Illingworth & Rodkin, Transtec, Lodico | | <i>Technical Contact</i> Bruce Rymer 916.653.6073, Tim Sexton 206.440.4549, Jeff Uhlmeier 360.709.5485 | | |
| <i>WSDOT Program Manager</i> Kim Willoughby 360.705.7978 | | <i>FHWA or Other Technical Contact</i> Mark Swanlund 202.366.1323 | | |
| <i>Funding Source</i> CA, FHWA, KS, MN, MT, NC, NM, OH, TX, WA | | <i>Schedule Status</i> <input checked="" type="checkbox"/> On schedule <input type="checkbox"/> Ahead of schedule <input type="checkbox"/> On revised schedule <input type="checkbox"/> Behind schedule | | |
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| <i>Original Estimated Cost</i> \$150,000 | <i>Revised Cost</i> \$520,000 | <i>% Funds Expended</i> 85% | <i>% Work Completed</i> 85% | |
| <i>Objective</i> <i>The objectives are: (1) provide a forum for states to discuss tire/pavement noise issues and develop a proposed research plan, and (2) pool resources and efforts of multiple state agencies and industry to perform tire/pavement noise research in a similar manner (avoiding duplication) and sharing of data.</i> | | | | |

Project Progress:

Illingworth & Rodkin/Transtec/Lodico have completed many of the tasks that they were assigned to accomplish – see below. A meeting is scheduled for July 28th in Portland, OR to discuss next steps and determine research needs from this point forward.

| Task No. | Description | Status | Expected Completion |
|----------|-----------------------------------|--|---------------------|
| 1 | General Consultation | On-going | 8/31/2011 |
| 2 | OBSI Measurements - Montana DOT | Testing completed 9/18/09, final report submitted to MDOT 8/10 | Completed |
| 3 | OBSI Measurements - Ohio DOT | Testing completed 10/1/09, draft final report submitted to ODOT 1/10 | Completed |
| 4 | OBSI Measurements - Kansas DOT | Testing completed 10/30/09, draft report submitted 9/10 | Completed |
| 5 | Support for Volpe B&K Class | Completed October 7 & 8, 2009 | Completed |
| 6 | Volpe Training & Comparative OBSI | Testing at Honda PG completed 10/16, data analysis complete, report deferred to NCAT testing | Completed |
| 7 | NCAT Track OBSI Measurements | Testing at NCAT completed 11/3/09, draft report submitted 8/10 | Completed |

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| 8 | OBSI Rodeo Support & Participation | Prelim GM Yuma PG testing 12/17/09, analysis & report pending | Completed |
| 8a | Comparative Testing with TxDOT, UT CTR, Transtec, & I&R | Testing completed 2/19/10 & 2/25/10, draft report submitted 8/10 | Completed |
| 9 | OBSI Calibrator | Active | 8/31/2011 |
| 10 | Scale for Tire Loading | Awaiting request for first usage | 8/31/2011 |
| 11 | B&K Pulse Data Analysis Routine | Inactive | 2/28/2011 |
| 12 | Quiet Pavement Folio | Final version published and distributed | Completed |
| 13 | NI System Development | Develop low cost OBSI system based on National Instruments analyzer | 6/30/2011 |
| 14 | OBSI Data Base Development | Initial IR and TGI data compiled and pending entry in the system | Completed |
| 15 | North Carolina Ambassador/Rodeo (FDOT, NCDOT, Volpe) | Rodeo completed 9/10, draft report completed in 1/11 | Completed |
| 16 | Washington State Rodeo | Planning | TBD |

New Period Proposed Activity:

- Hold annual TAC meeting on July 28, 2011 in Portland, OR
- Continue developing the low cost OBSI system with NI analyzer
- Finalize reports from the rodeos and ambassador tours
- Determine research needs for the states involved