TRANSPORTATION POOLED FUND PROGRAM **QUARTERLY PROGRESS REPORT**

FHWA

Lead Agency (FHWA or State DOT): _			
INSTRUCTIONS: Project Managers and/or research project inversequenter during which the projects are active. For each task that is defined in the proposal; a per the current status, including accomplishments during this period.	Please provide rcentage comp	a project schedule state pletion of each task; a co	us of the research activities tied to oncise discussion (2 or 3 sentences) of
Transportation Pooled Fund Program Project # (i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX) TPF-5(158)		Transportation Pooled Fund Program - Report Period:	
		□Quarter 1 (January 1 – March 31)	
		□Quarter 2 (April 1 – June 30)	
		□Quarter 3 (July 1 – September 30)	
		☑Quarter 4 (October 1 – December 31)	
Project Title:			
FHWA Traffic No	ise Model: Ver	rsion 3.0 Software Deve	elopment
Name of Project Manager(s):	Phone Number:		E-Mail
Mark Ferroni	202.366.3233		mark.ferroni@dot.gov
Lead Agency Project ID:	Other Project ID (i.e., contract #):		Project Start Date:
FHWA	IAA with the U.S. DOT Volpe Center		July 2007
Original Project End Date:	Current Project End Date:		Number of Extensions:
December 2012	December 2012		0
Project schedule status:			
✓ On schedule ☐ On revised schedu	lule		
Overall Project Statistics:			
Total Project Budget	Total Cost to Date for Project		Percentage of Work Completed to Date
\$226,500	166,500		80%
Quarterly Project Statistics:	_		
Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter		Total Percentage of Time Used to Date
and Percentage This Quarter	Expende	u Tilis Quarter	Time Used to Date

NA

NA

NA due to additional funding by FHWA

Project Description:

The FHWA Traffic Noise Model (FHWA TNM) was originally released in 1998 and has undergone several upgrades. On May 2, 2005 the FHWA TNM, Version 2.5 became the required traffic noise prediction model to be used on Federal-aid highway projects.

FHWA TNM Version 3.0 Software Development:

FHWA is currently funding the development of the FHWA TNM Version 3.0. The main objective of Version 3.0 is to contemporize the software, making sure that the FHWA TNM does not become obsolete as computers/operating systems advance. Contemporizing FHWA TNM will allow for more efficient upgrades and future maintenance.

The pooled fund participants at the time that this project was started, identified the following enhancement to be included in TNM version 3.0:

- 1. Barrier Reflections
- 2. Enhanced Contours
- 3. Multi-lane tools
- 4. GIS Import/Export
- 5. Enhanced Contours

The scheduling and progress of this pooled fund is not independent of itself, but rather depending on the continual progress and funding of the overall version 3.0 development. The above referenced project schedule is accurate for the overall completion of TNM version 3.0. The specifics of percentages of funding remaining is difficult to specify since the FHWA continually adds funding to the above enhancements and other 3.0 development and since a vast majority of enhancements are overlap and/or coincide with each other.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

Two contracts were initiated to 1. Develop a "Beta-test Plan" and 2. Develop and preform "Sensitivity Testing". Work on the Beta-test Plan, Beta-tester Agreement have been started. The Sensitivity Test Plan has also been started but started but is dependent on the beta-testing starting.

As for the pooled-fund identified tasks, the below is an update on their progress:

Tasks Currently in Progress:

- 1. Barrier Reflections: Conceptually we know how to accomplish this task, but it needs to be implemented. Additional work on this can only begin once the acoustics is completed.
- 2. Enhanced Contours: The enhancement portion of this task is done, however there is still some work that needs to be done with the acoustics to fully implement this.

Tasks Completed:

- 1. Multi-lane tools: Users will be able to start with existing roadway or from scratch and create a multilane roadway
- 2. Basic DXF Import: TNM will allow users to import shp, dxf, and dgn files. Import of dwg files is in development. Users will be able to export TNM cases as dxf or shp files.
- 3. GIS Import/Export: TNM 3.0 will allow users to import georeferenced images or unreferenced images to use as a base

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Anticipated work next quarter: Continue to develop/complete the barrier reflections and contour functionality in anticipation of beta-testing 4th quarter of 2012.		
2012.		
Significant Results: Current schedule puts the start of beta-testing in late 2012. All states apart of this pooled fund are invited to be beta-testers.		

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).
Any programming or budgetary issues have been resolved to date. However, due to the difficulty in the barrier reflections enhancement, we may need additional funding.
Potential Implementation:
Once TNM version 3.0 is completed including the 5 identified enhancements from this pooled fund, the FHWA will publish a 23 CFR 772 Notice of Proposed Rulemaking requiring the use of the FHWA TNM version 3.0.