3rd Quarterly Progress Report to the FEDERAL HIGHWAY ADMINISTRATION (FHWA)

On the Project: THE IMPACT OF WIDE-BASE TIRES ON PAVEMENT DAMAGE DTFH61-11-C-00025

For period October 1st to December 30st 2011

From
University of Illinois at Urbana-Champaign
Illinois Center for Transportation

FEDERAL HIGHWAY ADMINISTRATION QUARTERLY PROGRESS REPORT

FHWA Project DTFH61-11-C-00025 FY: 2011 Quarter: October-December

Research Agent Illinois Center for Transportation

Principal Investigator Imad L. Al-Qadi

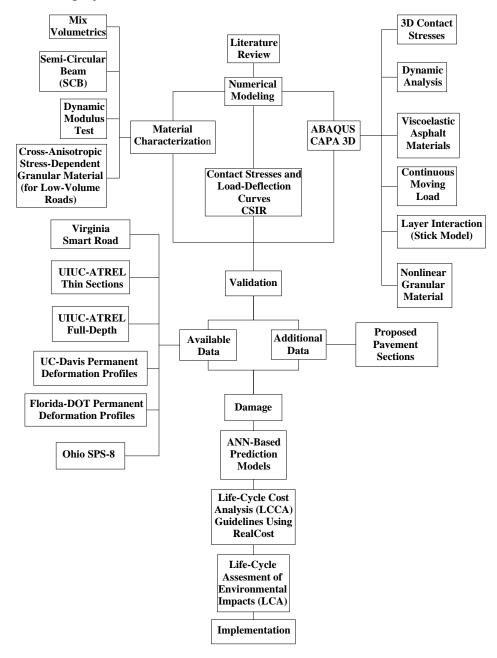
PHASE	RESEARCH TASK		2011										2012										2013											ESTIMATED % COMPLETION	
		Α	М	J	J	Α	S	0	Ν	D	J	F	М	Α	М	J	J	Α	S	0	Ν	D	J	F	М	Α	М	J	J	Α	S	0	N	D	
1	1.1. Comprehensive literature review and synthesis on past and current research	00	60	90	100																														100
	1.2. Experimental plan and modeling framew ork	20	60	90	100																														100
	1.3. Implementation and marketing plan 1.4. Phase I report			50	60	80	100																												100
			10	50	70	80	100																												100
				60	70	80	100																												
	1.5. Conference call with panel	0	50			100																													100
	1.6. Presentations to relevant conferences and symposiums																																		0
2	2.1. Prepare experimental equipment, test structures, and instrumentation																																		0
	2.2. Conduct experiments, including material																																		0
	characterization and accelerated loading																																		
	2.3. Conduct modeling																																		0
	2.4. Develope of analysis tool																																		0
	2.5. Delivery of draft Phase II report and analysis tool																																L		0
	2.6. Present to relevant conferences and sumposiums																																		0
	2.7. Prepare article and technical papers																														F				0
	Estimated Progress (%)	1	3	7	8	10	11	11	11	11																					T	\vdash		Ħ	11
	Planned Progress (%)	1	3	7	10	13	_	24	30	34	39	43	48	53	55	57	59	61	63	64	66	68	70	72	74	76	78	80	87	93	100	100	100	100	34

QUARTERLY PROGRESS REPORT QUARTER 3

The Impact of Wide-Base Tires on Pavement Damage – A National Study

1. Work Performed

Work plan for this project is summarized as in chart 1.



During this quarter, the following tasks have been accomplished:

- The reviewed version of Phase I has been submitted. This version addressed all suggestions,, comments, and recommendations made by the Research Panel based on the face-to-face meeting held in Washington DC on October 26, 2011.
- Tire-cuts of 275/80R22.5 and 445/50R22.5 and their corresponding DXF files have been received from Michelin. This information will define the geometry of the tires to be inputted in the FEM.
- University of Illinois participated in a couple of meetings regarding the reconstruction of SPS Sections at Del 23 in Ohio in order to explore the possibility of installing surface gauges in this project.

2. Work to be accomplished next quarter

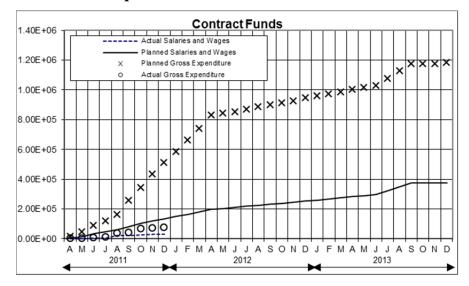
Since there has not been approval of Phase II from the research panel in this period, the activities for next quarter are the same as the ones stated in the previous quarterly report. These activities will be started in accordance with the modified plans presented in the Phase I report after being accepted or modified per the Research Panel. This may include the following:

- Preparation of experimental equipment, test structures, and instrumentation
- Modeling of some available pavement structures and tires

3. Problems encountered

No problems have been encountered in this quarter.

4. Current and cumulative expenditures



 funds expended
 6.1%

 contract amount
 \$1,190,456.00

 expended this quarter
 \$31,986.81

 total expenditures to date
 \$73,191.95

 balance
 \$1,117,264.05

time expended, hrs starting date October 1, 2011 Completion date December 31, 2011

salaries and wages estimated this quarter salaries and wages spent this quarter accumulated salaries and wages to date \$51,965.8 \$6,543.8 \$29,510.83

5. Planned, actual, and cumulative percent of effort

