

State of Wisconsin/Department of Transportation
 RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: December 31, 2008

Program: SPR-0010(36) FFY99		Part: II Research and Development	
Project Title: Construction Vibration Attenuation with Distance and Effect on Quality of Early-Age Concrete		Project ID: 0092-06-04	
Administrative Contact: Daniel Yeh		Sponsor: Wisconsin Department of Transportation	
WisDOT Technical Contact: Robert Arndorfer		Approved Starting Date: 10/20/05	
Approved by COR/Steering Committee: \$230,805		Original End Date: 10/20/08	
Project Investigator (agency & contact): HNTB Corporation, John M. Siwula		Current End Date: Yet to be determined based on final field test locations	
		Number of Extensions: 1	

Percent Complete: 45 %

Request a No Cost Time Extension (Please Select One): YES NO

Reason for No Cost Time Extension:

Marquette Interchange pile contractor did not allowing research team to access site for data collection. Therefore, the DOT and research team are investigating other possible field test locations.

Project Description:

Research of construction vibrations and attenuation with distance from the vibration source. Also determine effects of vibration and cure time on the quality of recently placed concrete. Noise generated by pile driving will also be measured. The Department wants to use the research to reduce the distance between pile driving and concrete placement operations in order to reduce construction periods and/or costs.

Progress This Quarter:

(Includes project committee mtgs, work plan status, contract status, significant progress, etc.)

Mr. Siwula and Dr. Helwany continued discussions with the Port Authority of Milwaukee and the Edward E. Gillen Co. to use another Port Authority site west of I-794 in Milwaukee for the field portion of the research. The additional Port Authority site was approved as an alternate field test site.

Work Next Quarter:

The final details will be resolved for the alternate pile driving site for the field portion of the research. Pile driving is expected to commence and should be finalized in the next quarter.

Circumstances Affecting Progress/Budget:

The lack of a field test site has not allowed field vibration attenuation monitoring to start.

Gantt Chart:

Not in this report.