TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): _____IOWA DOT

INSTRUCTIONS: Project Managers and/or research project invest quarter during which the projects are active. Present task that is defined in the proposal; a perothe current status, including accomplishments aduring this period.	lease provide a centage comple	a project schedule st etion of each task; a	tatus of the research activities tied to concise discussion (2 or 3 sentences) of
Transportation Pooled Fund Program Project # TPF-5(219)		Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2018) Quarter 2 (April 1 – June 30, 2018) X Quarter 3 (July 1 – September 30, 2018) Quarter 4 (October 1 – December 31, 2018)	
Project Title: Development of a Structural Health Monitoring System to Evaluate Structural Capacity and Estimate Remaining Service Life for Bridges			
Project Manager: Ahmad Abu-Hawash	Phone: E-mail 515-239-1393 ahma		nail: mad.abu-hawash@dot.iowa.gov
Project Investigator: Brent Phares			mail: hares@iastate.edu
Lead Agency Project ID: RT 329	Other Project ID (i.e., contract #): Addendum 367		Project Start Date: 3/01/10
Original Project End Date: 2/28/15	Current Project End Date: 12/31/18		Number of Extensions:
Project schedule status: ☐ On schedule			
Total Project Budget	Total Cost to Date for Project		t Total Percentage of Work Completed
\$869,911.00	\$800,894.36		92%
Quarterly Project Statistics:			
Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter		Percentage of Work Completed This Quarter
\$50,558.19			10%

Project Description:

- Literature Review: Damage detection and load rating algorithms
- Literature Review: Techniques for assessing remaining service life
- Interim Report
- Development of real-time, strain-based algorithm(s)
- Development of real-time, vibration-based algorithm(s)
- Development of real-time, fused-data algorithm(s)
- Compare and contrast result(s) from Tasks 4 through 6
- Interim Report
- Development of Statistical Models to Extrapolate Time-dependent Load Ratings
- Development of Structural Models to Quantify Extrapolations
- Final Report

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

The draft final report is being compiled and will be sent to the TAC for review after internal review is complete.

Anticipated work next quarter:

Finalizing final report.

Significant Results:

Improvements to load rating calculations and service life estimations.

Circumstance affecting project or budget (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).

None.