TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): _____IOWA DOT_____

INSTRUCTIONS:			
Project Managers and/or research project investigation of 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 compl	a project schedule sta etion of each task; a	atus 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, 2019) Quarter 2 (April 1 – June 30, 2019) Quarter 3 (July 1 – September 30, 2019) X Quarter 4 (October 1 – December 31, 2019)	
Project Title: Development of a Structural He Remaining Service Life for Bridges	alth Monitoring	g System to Evaluate	Structural Capacity and Estimate
Project Manager: Ahmad Abu-Hawash	Phone: E-ma 515-239-1393 ahma		nail: mad.abu-hawash@dot.iowa.gov
Project Investigator: Brent Phares	Phone: E-ma 515-294-5879 bphar		mail: nares@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: 10/31/2019		Number of Extensions:
Project schedule status:			
☐ On schedule ☐ Ahead of schedule ☐ Behind schedule			
Overall Project Statistics:			
Total Project Budget	Total Cos	t to Date for Project	Total Percentage of Work Completed
\$869,911.00	\$869,768.16		100%
Quarterly Project Statistics:			
Total Project Expenses This Quarter		ount of Funds ed This Quarter	Percentage of Work Completed This Quarter
\$0	•		1%

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 final report has been finalized and will be published in January. This project has been completed.

Anticipated work next quarter:

This project is now complete.

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).