TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: <u>Dec 31, 2019</u>			
Lead Agency (FHWA or State DOT): _	Indiar	na DOT	
INSTRUCTIONS: Project Managers and/or research project investigated quarter during which the projects are active. Project task that is defined in the proposal; a perothe current status, including accomplishments aduring this period.	lease provide a centage compl	a project schedule statu etion of each task; a coi	s of the research activities tied to ncise discussion (2 or 3 sentences) of
Transportation Pooled Fund Program Project # (i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)		Transportation Pooled Fund Program - Report Period:	
		□Quarter 1 (January 1 – March 31)	
<u>TPF 5-436</u>	□Quarter 2 (April 1 –		June 30)
		☐Quarter 3 (July 1 – September 30) XQuarter 4 (October 1 – December 31)	
Project Title:			
Development of Criteria to Assess the Effect		-	
Name of Project Manager(s): Tommy E. Nantung	Phone Number: (765) 463-1521 ext. 248		E-Mail tnantung@indot.in.gov
Lead Agency Project ID:	Other Project	et ID (i.e., contract #):	Project Start Date: 9/1/2019
Original Project End Date: 8/31/2022	Current Proj 8/31/2022	ect End Date:	Number of Extensions: None
Project schedule status:	_		_
X On schedule ☐ On revised schedu	le ⊔ A	Ahead of schedule	☐ Behind schedule
Overall Project Statistics:	T-1-10	Lie Dele (en Duele el	Demonstrate of West
Total Project Budget**	Total Cost to Date for Project		Percentage of Work Completed to Date**
\$760,000		\$22,455	8%
Quarterly Project Statistics:			
Total Project Expenses and Percentage This Quarter		ount of Funds d This Quarter	Total Percentage of Time Used to Date
M47.070	I	0.40/	4440/

^{**}This total budget is based on funds that are shown as "committed" on the TPF website.

Project Description:

This study proposes to:

- 1) To develop AASHTO ready specifications for the evaluation of the effects of pack-out corrosion in built-up steel tension, compression, and flexural members.
- 2) Provide guidance on the need for repairs and corrosion rates that can be expected in various environments in order to assist owners in programming when repairs may need to be made.
- 3) Identify the most effective methods of repairs and provide suggesting verbiage that could be used when preparing special provisions for repairs.
- 4) Develop several case-study examples, including calculations that will be used for training users on the methodologies to be developed. It is anticipated that the research team will host a number of webinars or on-site training sessions to ensure technology transfer and implementation.

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

- At present, only two of the states which have made commitments for funding have actually transferred funds to the project. Hence, progress has been limited. It is hoped that remaining states will be transferring funds in the near term so that work can begin at a higher level of effort.
- The literature review has been completed and confirmed there is no real guidance available for evaluating the effects of pack-out on the strength and fatigue/fracture performance of components in highway bridges.
- Preliminary finite element studies are underway to begin to evaluate the effects of pack out on the strength of compression members in trusses.

Anticipated work next quarter:

- Continue with the finite element studies and begin to tension members.
- Coordinate a project kick-off meeting in early 2020.
- Begin to develop the large-scale experimental program

Significant Results:

1. None to date

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).

At present, only \$80,000 of the proposed \$760,000 has been received to date. The research team is very limited on how much progress can be made unless more states follow up on their pledge to support the research.

Potential Implementation:	
None to date	