TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

10/1/2015	INDEFINITE		None			
Lead Agency Project ID: Original Project End Date:	Other Project ID (i.e., contract #): Current Project End Date:		Project Start Date: 9/1/2013 Number of Extensions:			
Name of Project Manager(s): Tommy E. Nantung	Phone Num (765) 463-15	21 ext. 248	E-Mail tnantung@indot.in.gov			
Project Title: Center for the Aging Infrastructure: Steel Bridge Research, Inspection, Training and Education Engineering Center – S-BRITE						
		XQuarter 4 (October 1 – December 31)				
		□Quarter 3 (July 1 –	September 30)			
<u>TPF 5-281</u>		□Quarter 2 (April 1 – June 30)				
(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)		□Quarter 1 (January 1 – March 31)				
Transportation Pooled Fund Program Project #		Transportation Pooled Fund Program - Report Period:				
Project Managers and/or research project investigation of the project Managers and/or research project investigation of the proposal; a percent the current status, including accomplishments adduring this period. Transportation Pooled Fund Program Projection, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)	lease provide a centage compl and problems a	a project schedule statuletion of each task; a colencountered, if any. Lis	s of the research activities tied to noise discussion (2 or 3 sentences) of t all tasks, even if no work was done ed Fund Program - Report Period:			
INSTRUCTIONS:	-tit	ld accordate a social delicit				
Lead Agency (FHWA or State DOT): _	<u>Indiar</u>	na DOT	·			
Date: <u>Dec 31, 2019</u>						

Quarterly Project Statistics:

Total Project Expenses	Total Amount of Funds	Total Percentage of
and Percentage This Quarter	Expended This Quarter	Time Used to Date**
\$59,607	4.7%	80%

\$738,989

80%

\$1,260,000*

^{*}Additional partners have joined S-BRITE and others have renewed participation, hence total project budget has increased.

^{**}Since end date has been extended, project percentages have been updated (estimates)

Project Description:

The objective is to develop the Steel Bridge Research, Inspection, Training, and Education Engineering Center (S-BRITE Engineering Center) focused on existing steel highway bridges. This National Center will be the first of its kind and will become the leading education, training, research, and engineering center related to all aspects affecting the existing aging steel bridge and structure inventory. Although the Center will be focused on highway bridges, it will also support stakeholders of steel railroad bridges as well as steel ancillary structures, such as lighting towers and sign supports. The Center will contribute to improved asset management decisions for DOTs, FHWA, and other partners relative to existing steel bridge inventory.

This impact will be realized through:

- Research
- Training
- Technical Support

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

- Texas DOT has joint S-BRITE as a partner.
- S-BRITE website continues to be updated (https://engineering.purdue.edu/CAI/SBRITE)
- Steel orthotropic deck panels that have been fatigue tested at Lehigh University have been delivered to S-BRITE and erected (see photograph 1 and 2).
- An all-bolted truss specimen has been acquired and erected at S-BRITE (see photograph #3)
- Continued to provided DEN support to all partners.
- A Special task associated with evaluating the redundancy of twin-tub girder bridges for the state of Wisconsin has been completed. A simplified approach to design twin tub girders bridges that would not be classified as FCMs has been developed and submitted for AASHTO consideration. The draft AASHTO-ready provisions are available to partners upon request.
- Training for assisting inspector's perceptive skills has been developed. A Beta version of this training will be
 offered in February 2020.

Anticipated work next quarter:

- Continue with on-site and off-site training for partners.
- Offer S-BRITE course on retrofitting steel bridges for fatigue. The development of this course was funded by INDOT. This is a VERY unique course in that students actually install various retrofits in addition to participating in classroom exercises (see photo). While there is significant cost to the course, it has been very well received. S-BRITE will very likely be offering the course to partner states and allow one individual per state to participate. Details will be forthcoming.
- · Continue with DEN support for all partners
- Continue to work with DOTs to obtain items for bridge component gallery.

Significant Results:

- 1. Training of employees from several State DOT.
- 2. DEN support has provided solutions to various DOT problems.
- 3. S-BRITE research results are being disseminated

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).

NONE

Potential Implementation:		
None to date		



Photograph #1 – Sample #1 of steel orthotropic deck



Photograph #2 – Sample #2 of steel orthotropic deck placed on steel truss bridge



Photograph 3 – Bolted Steel Truss Specimen