

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: March 31, 2020

Lead Agency (FHWA or State DOT): Indiana DOT

**INSTRUCTIONS:**

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

<b>Transportation Pooled Fund Program Project #</b> <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i>  <u><b>TPF 5-281</b></u>		<b>Transportation Pooled Fund Program - Report Period:</b> <input checked="" type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
<b>Project Title:</b> Center for the Aging Infrastructure: Steel Bridge Research, Inspection, Training and Education Engineering Center – S-BRITE			
<b>Name of Project Manager(s):</b> Tommy E. Nantung		<b>Phone Number:</b> (765) 463-1521 ext. 248	<b>E-Mail</b> <a href="mailto:tnantung@indot.in.gov">tnantung@indot.in.gov</a>
<b>Lead Agency Project ID:</b>		<b>Other Project ID (i.e., contract #):</b>	<b>Project Start Date:</b> 9/1/2013
<b>Original Project End Date:</b> 10/1/2015		<b>Current Project End Date:</b> INDEFINITE	<b>Number of Extensions:</b> None

Project schedule status:

On schedule     
  On revised schedule     
  Ahead of schedule     
  Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date**
<b>\$1,320,000*</b>	<b>\$765,677</b>	<b>80%</b>

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date**
<b>\$26,688,</b>	<b>2.0%</b>	<b>80%</b>

\*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>)
- Continued to provide 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 girder 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.
- The Beta version of the short-course on assisting inspector's perceptive skills has been developed and was offered in February 2020. The course was very well received. Modifications have been made to the course based on the feedback received. What is interesting the course was offered on line to some participants to explore the possibility of on-line training for this class. As the on-line portion was also well-received, the S-BRITE staff will begin to offer this class to partner states via on-line delivery, which is attractive considering the Corona Virus issues plaguing all partners.
- S-BRITE offered the class "retrofitting steel bridges for fatigue" in early March of 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 as soon as travel restrictions are lifted for partner states.
- 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