

# TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: Sept 30, 2024

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/TPF 5-436</b></u>		<b>Transportation Pooled Fund Program - Report Period:</b> <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input checked="" 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>\$3,645,000*</b>	<b>\$1,871,312</b>	<b>90%</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>\$117,678</b>	<b>3.2%</b>	<b>90%</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.):**

- Continued to provide DEN support to all partners;
- Offered training for partner states/agencies.
- INDOT & S-BRITE are still working to gain approval for the equivalent NSTM training course. All technical comments from FHWA have been addressed. S-BRITE and INDOT are optimistic that the training will be approved by the end of 2024.
- Obtained additional specimens for S-BRITE including another entire riveted railroad bridge donated by CSX Railroad
- Complete work with University of Missouri and Dr. Glenn Washer on assistance T1 steel NDT efforts. This effort yield three documents that have proven to be very helpful to the owners of steel bridge with T1 steel.
- Added a few additional states to the S-BRITE roster
- Spend considerable effort working to totally revamp the S-BRITE website. More to come on this.

**Anticipated work next quarter:**

- Continue support that efforts to support states in performance testing efforts as part of the testing required per the FHWA T1 memo.
- Offer S-BRITE training to various partners.
- Continue to work with FHWA to obtain approval for S-BRITE equivalent NSTM training. It is hoped that the course will be fully approved sometime in the 4<sup>th</sup> quarter of 2024.
- Plans are to kick-off the PIN inspection project in the fourth quarter. Efforts will be made to encourage other agencies to join this study.
- Obtain additional specimens from INDOT and Michigan DOT including cable hangers from the Sherman Minton Bridge and components from a Bascule Bridge in Michigan.
- Continue to work on revamping and updating the S-BRITE website.

**Significant Results:**

1. Training of employees from several State DOT, including the Development of S-BRITE equivalent NSTM training.
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).**

**Potential Implementation:**

S-BRITE continues to have tremendous impact and benefit for owners, designers, and fabricators of steel bridges.