

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: June 30, 2025

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.

Transportation Pooled Fund Program Project # <i>(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> <u>TPF 5-281/TPF 5-436</u>		Transportation Pooled Fund Program - Report Period: ☐ Quarter 1 (January 1 – March 31) ☒ Quarter 2 (April 1 – June 30) ☐ Quarter 3 (July 1 – September 30) ☐ Quarter 4 (October 1 – December 31)	
Project Title: Center for the Aging Infrastructure: Steel Bridge Research, Inspection, Training and Education Engineering Center – S-BRITE			
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 ID (i.e., contract #):	Project Start Date: 9/1/2013	
Original Project End Date: 10/1/2015	Current Project End Date: INDEFINITE	Number of Extensions: 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**
\$3,645,000*	\$2,228,972	90%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date**
\$98,428	2.7%	90%

*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 continued working to gain approval for the equivalent NSTM training course. At present, INDOT is working on the memorandum of understanding (MOU) between INDOT and FHWA.
- The new S-BRITE website has been further updated. Please see <https://www.purdue.edu/engineering/sbrite/>
- Obtained and erected specimens from Valmont, specifically a folded plate tub girder that is galvanized.
- Erected suspender cables obtained from the Shermon Minton Bridge in Indiana
- Obtained T1 steel specimens from Illinois

Anticipated work next quarter:

- Offer S-BRITE training to various partners.
- Continue to work with FHWA to obtain approval for S-BRITE equivalent NSTM training. It is still hoped that the course will be fully approved sometime in the 3rd quarter of 2025.
- Kick-off the PIN inspection sub-task in the first quarter of 2025. A student has been identified who will join Purdue in August and will focus on this research. Efforts will be made to encourage other agencies to join this study.
- Obtain components from a bascule bridge in Michigan.
- Continue to work on 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.