

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: March 31, 2022

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</u>		Transportation Pooled Fund Program - Report Period: <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)	
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**
\$1,585,000*	\$1,025,242	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**
\$27,192	1.7%	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;
- Provided support as related to the December 13 FHWA Memo on T1 steel through a webinar on January 24;
- Provided additional support per request of FHWA (partner agency) on February 14 to all 50 states regarding FHWA T1 steel memo. The webinar was widely attended;
- Began securing T1 steel samples for testing per the discussion with partner states to develop performance testing strategies and methods for assisting in the UT inspection of CJP welds in T1 steels;
- Developed scope of work and budget for sub-agreement with University of Missouri (Glenn Washer PI) for measuring acoustic properties of Q/T A514 (T1) steels;

Anticipated work next quarter:

- Continue working performance testing efforts associated with FHWA T1 steel memo;
- Offer S-BRITE course on retrofitting steel bridges for fatigue on April 12/13. It appears it will be well attended based on registration to date;
- Set a date to offer steel bridge hands-on retrofit class in summer of 2022;
- Work scheduling offerings of on-site training in Michigan and Texas per requests of these partners;
- Continue with DEN support for all partners;
- Continue to work with DOTs to obtain items for bridge component gallery;
- Develop final scope for field testing of Fort Pierre Bridge in SD to be done as special S-BRITE Task;

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).

Potential Implementation:

S-BRITE continues to have tremendous impact and benefit for owners, designers, and fabricators of steel bridges. It is anticipated that significant support will be provided to the partner states as related to the FHWA Memo focused on NDT of T1 Steels.