

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: Sept 30, 2015

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 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)	
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: 8/31/2016	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
\$400,000	\$201,806	80%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$43,329	10.8%	82%

*Due to an Accounting error at Purdue, project costs were previously overestimated.

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.):

- All specimens located at the Bowen Laboratory were relocated to the S-BRITE Center
- Erection of several specimens was completed, including the 91 foot span pony truss from Michigan, pieces from the CSX bridge in Philadelphia, and nearly 200 feet of deep plate girders. A few photographs are attached.
- Offered the pilot course for the new S-BRITE project related to developing training and certification of retrofitting steel bridges. The course went very well and a second pilot will be offering in January of 2016. After that, the course will be opened up for partner states.
- Short courses were offered in Iowa, Minnesota, Indiana, and South Dakota.
- S-BRITE website continues to be updated (<https://engineering.purdue.edu/CAI/SBRITE>)
- Dr. Connor gave a presentation at MAASTO in Kansas City regarding the S-BRITE Center and TPF-5(281).

Anticipated work next quarter:

- Continue with on-site and off-site training for partners
- Continue with project related to developing training and certification
- Continue with DEN support
- Install power to the site.

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

Photographs of selected S-BRITE Specimens



Erected 90 foot span pony truss



Chords from CSX RR bridge in Philadelphia



Gusset plate from CSX RR bridge in Philadelphia



Large plate girders from the Virginia Ave Bridge in Indianapolis