

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: March 31st, 2016

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: 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	\$210,592	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
\$8,786	2.2%	85%

*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.):

- Offered the second pilot course for the new S-BRITE project related to developing training and certification of retrofitting steel bridges. Arrangements are being made to open the course to consultants and other TPF partners.
- Short courses were offered in Indiana.
- A special Short course on fatigue design and inspection was held for the Utah DOT. Utah is now planning on joining S-BRITE via TPF-5(281).
- S-BRITE website continues to be updated (<https://engineering.purdue.edu/CAI/SBRITE>)
- Continue to coordinate the acquisition of additional specimens for S-BRITE.
- Provided DEN support to Indiana, Illinois, and South Dakota.
- Provided specific DEN support to Illinois and installed a modest number of strain gages on a interstate bridge that was exhibiting out-of-plane distortion cracking. Provide retrofit recommendations.
- Worked with DOTs to obtain additional specimens for the Bridge Component Gallery.
- Work with Lansing County Community College (Michigan) related to S-BRITE hosting the 2016 Iron and Steel Preservation Conference. The conference will be held at Purdue May 18-20.

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
- 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