

TRANSPORTATION POOLED FUND PROGRAM

QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Arizona Department of Transportation

INSTRUCTIONS:

Lead Agency contacts 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> TPF-5(481)	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)	
TPF Study Number and Title: TPF-5(481) In-Service Performance Evaluation (ISPE) of Roadway Safety Features		
Lead Agency Contact: Bill Stone	Lead Agency Phone Number: 602-712-3135	Lead Agency E-Mail wstone@azdot.gov
Lead Agency Project ID: SPR-778	Other Project ID (i.e., contract #): CTR076707	Project Start Date: 7/1/2022
Original Project Start Date: 1/1/2021	Original Project End Date: 9/30/2026	If Extension has been requested, updated project End Date: N/A

Project schedule status:

☐ On schedule	☒ On revised schedule	☐ Ahead of schedule	☐ Behind schedule
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Overall Project Statistics:

Total Project Budget	Total Funds Expended This Quarter	Percentage of Work Completed to Date
\$720,000	None	30%

Project Description:

It is a long-standing policy of the Federal Highway Administration that National Highway System roadside safety hardware such as longitudinal barriers, sign supports, guardrail terminals, and work zone devices -- demonstrate crashworthiness. Currently, state and local transportation agencies assess performance according to the crash test and evaluation methods prescribed in the AASHTO Manual for Assessing Safety Hardware (MASH).

This pooled fund study will give states the opportunity to collaborate by sharing data and experiences in assessing the performance of in-service roadside safety hardware.

The primary objective of this pooled fund study is to evaluate the performance of roadside safety hardware in the field through inter-state collaboration by using standardized data collection and data analysis with a uniform interpretation of results contained in the guidance document developed under the NCHRP 22-33 project, Multi-State In-Service Performance Evaluations of Roadside Safety Hardware. The second objective is to provide a forum for states to share ISPE data, experiences, practices, information, and resources.

Progress this Quarter

(includes meetings, work plan status, contract status, significant progress, etc.):

The Technical Advisory Committee (TAC) prioritized the development of a prospective ISPE data collection protocol that could be distributed to each state to gauge the level of feasibility of performing ISPE field data collection in each state. The objective of this subtask is to determine which member states can accomplish prospective data collection of terminal and/or crash cushion crashes with the intent to eventually plan to conduct an Investigative ISPE using those states.

An email was sent to each of the participating states with a draft data collection plan, draft data collection form, and instructions for completing the form. The materials will be tailored for each participating state, to develop state-specific documents.

The first step in participating was to set up individual kick-off meetings with each state who wishes to participate to discuss big picture plans. Additional meetings will most likely be needed. During this initial meeting a brief discussion of each of the following topics below, and how to plot a path forward to starting the data collection, and answer any questions or concerns each state may have:

1. Define inclusion criteria,
2. Establish crash occurrence notification procedures,
3. Finalize the state-specific procedures and forms,
4. Create data collection teams,

Additional progress during the quarter included the following:

- A draft ISPE report was submitted to Illinois DOT for review and approval to distribute to the TAC.
- A draft ISPE report was submitted to Arizona DOT for review and approval to distribute to the TAC.
- Data collection for the Investigative ISPE using Arizona data continued.

Anticipated work next quarter:

- The routine ISPE of longitudinal barriers in Alabama will be initiated
- The routine ISPE of longitudinal barriers in Iowa will be initiated
- The routine ISPE of longitudinal barriers in Massachusetts will be initiated

Significant Results:

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: