

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.):

Task 5 (Conduct Routine ISPEs)

Drafts of the first three ISPE reports were developed and submitted. These reports included:

- Illinois SFUE1 ISPE Report (SPR-778-01001-R104-24)
- Florida SFUE1 ISPE Report (SPR-778-01002-R103-24)
- Florida SFUE2 ISPE Report (SPR-778-01003-R203-24):

Anticipated work next quarter:

- Complete the draft Task 11.1 report which will update the IDOT Routine SFUE1 Report with PSL₁
- Complete the draft Task 11.2 report which will update the ADOT 2020-2023 Routine SUFE1 ISPE.
- Begin to collect data for Task 6.7, ADOT Investigative SFUE1 ISPE-
- Initiate Task 12.1 to conduct a pilot prospective ISPE data collection

Significant Results:

A new contract was executed and a Notice to Proceed (NTP) issued on June 10, 2025. This is for the work with the Year 2 Plan which was approved by the Technical Advisory Committee (TAC).

The work plan plans to perform three additional routine ISPEs of longitudinal barriers and to include those results in an updated longitudinal barrier multi-state ISPE. The plan is anticipated to provide both a more nuanced understanding of longitudinal performance through the conduct of an investigative ISPE while also providing the benchmarking of longitudinal barrier performance in the states individually through the routine ISPEs and collectively through the multi-state ISPE. The TAC also expressed interest in conducting prospective data collection to support ISPEs but noted the possible data collection difficulties in the states.

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: