

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): _____ FHWA _____

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-05(317)	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-05(317) The Evaluations of Low-Cost Safety Improvements Pooled Fund Study (ELCSI-PFS)		
Lead Agency Contact: Woon Kim, FHWA	Lead Agency Phone Number: (202) 493-3383	Lead Agency E-Mail Woon.Kim@dot.gov
Lead Agency Project ID: TPF-05(317)	Other Project ID (i.e., contract #): N/A	Project Start Date: 08/2022
Original Project Start Date: 05/2005	Original Project End Date: 05/2010	If Extension has been requested, updated project End Date: N/A continuing effort

Project schedule status:

☐ On schedule
 ☒ **On revised schedule**
☐ Ahead of schedule
 ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Funds Expended This Quarter	Percentage of Work Completed to Date
Ongoing project (N/A)	Ongoing project (N/A)	Ongoing project (N/A)

Project Description:

The primary goal of the Evaluation of Low-Cost Safety Improvement Pool Fund Study (ELCSI-PFS) was to save lives and reduce traffic crash injuries by identifying effective safety strategies for national implementation. The ELCSI-PFS conducted research to quantify the safety effectiveness of selected strategies — so-called crash modification factors (CMFs) — that may address priority safety concerns but had not been proven. This study also provided benefit-cost (B/C) ratios to estimate the resulting relationship between the relative monetary value of benefits and costs of a selected strategy. Transportation agencies utilized estimated CMFs and B/C ratios to select, plan, fund, and install a specific safety strategy on a targeted site to improve its outstanding safety issue. The secondary goal of this study is to improve and advance the statistical tools to conduct more reliable, rigorous research. For this effort, this study collaborated with the American Statistical Association (ASA) and identified new statistical methodologies to advance the current practices

used in the development of CMFs. This study initiated in 2005 but continued adding years for additional studies. Currently this study is running Phase XIII (so-called 5 CMFs) to evaluate the safety effectiveness of the following countermeasures:

- Rectangular Rapid Flashing Beacons (RRFBs)
- Left-Turn Lanes Improvements (LTL)
- Curve Enhanced Delineation (CED)
- Alternative Rumble Strips (ARS)
- Fixed Object Delineation (FOD)

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

ELCSI-PFS PHASE XIII: 5 CMFS

RRFB

- Held the RRFB workshop on 4/1/25.
- Organized and posted the PDFs of the workshop presentations on [the event website](#).
- Continued responding to comments and providing revised versions of draft technical report and techbrief in response to comments from the MUTCD Team and FHWA editors.

LTL

- Completed processing of the traffic movement count (TMC) data received from the third-party vendor and developed preliminary turning percentages for study sites.
- Developed preliminary estimated AADTs for study sites.
- Conducted QA/QC analysis on TMC estimates and percentages and AADT estimates.
- Incorporated TMC and AADT data into the overall database.
- Began and continued processing crash data from CA and TX.

CED

- Received comments on technical report and techbrief from MUTCD Team and subsequent communications.
- Drafted and submitted a contract modification request for additional analyses to address MUTCD Team comments.

ARS

- Revised the draft technical report in response to comments and prepared the 1st draft techbrief.
- Prepared the 2nd draft of the technical report and the 1st draft of the techbrief.

FOD

- Prepared the 1st draft technical report and techbrief for FHWA review.
- Responded to review comments from the MUTCD Team.

TECHNICAL ADVISORY COMMITTEE (TAC) MEETING

- Completed. No further activities. Please refer to [the quarterly progress report for TPF-5\(515\)](#) for upcoming activities under this subsection.

PUBLICATIONS

None

Anticipated work next quarter:

- Respond to additional comments or questions on report and techbrief for RRFB as needed.
- Begin incorporating crash data into the overall database and finalize database for LTL study.
- Revise the technical report and techbrief for ARS study upon receipt of comments.
- Address technical review comments on 1st draft technical report for FOD study upon receipt of comments.

Significant Results:

- Prepared drafts of technical reports and techbriefs for most studies and completed data collections for LTL study.

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).

For CED study, MUTCD Team requested additional analyses, which will delay study completion.

Potential Implementation:

N/A