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.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* 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

- Developed and submitted the 1st draft Technical Report in October. Received comments in November and revised the draft based on them. Submitted the 2nd draft Technical Report in December.
- Developed and submitted the 1st draft TechBrief to FHWA for review in December.
- Submitted the revised TRB paper developing a model to estimate pedestrian volumes for the 2025 TRB annual meeting and to TRR for publication consideration. Also, prepared presentations for the 2025 TRB annual meeting.
- Developed the draft agenda for the workshop and submitted to FHWA for review.
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on November 21, 2024.

LTL

- Provided supplemental materials (cost estimates and revised proposal modification) for contract modification to add a subtask that collects turning vehicles counts using Replica.
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on November 21, 2024.

CED

- Developed and submitted the 1st draft Technical Report in October. Received comments in November and revised the draft based on them. Submitted the 2nd draft Technical Report in December.
- Developed and submitted the 1st draft TechBrief to FHWA for review in December.
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on November 21, 2024.

ARS

- Competed and submitted the technical memorandum about data analysis completion.
- Found issues on analyses and reran the safety effectiveness evaluation for shoulder rumble strips to update the results.
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on November 21, 2024.

FOD

- Continued development of the Texas and Pennsylvania database (crash and AADT data merging).
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on November 21, 2024.
- Completed and submitted the technical memorandum about final work plan.
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on November 21, 2024.

TECHNICAL ADVISORY COMMITTEE (TAC) MEETING

- Completed. No further activities.

PUBLICATIONS

None

Anticipated work next quarter:

- Submit the final RRFB technical report and techbrief for the FHWA's editorial review.
- Select date for the RRFB workshop and continue refining agenda.
- Upon receiving approval from FHWA to proceed with additional work, begin obtaining turning count estimates for the LTL study sites.
- Continue exploring feasibility of obtaining estimated average daily traffics using passive measurement system for LTL.
- Begin developing a 20-minute technical presentation to brief the CED study findings to FHWA technical panel.
- Submit the final CED technical report and techbrief for the FHWA's editorial review.
- Complete B/C analysis and develop the draft technical report for ARS.
- Submit the technical memorandum for final work plan and continue work on the Texas and Pennsylvania database development for FOD study.

Significant Results:

- Completed reviewing the 1st draft technical reports for RRFB and CED.

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).

No new problems.

Potential Implementation:
N/A