

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> <div style="text-align: center;">TPF-05(317)</div>	Transportation Pooled Fund Program - Report Period: <input 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)	
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

- Continued responding to comments and providing revised versions of draft technical report and techbrief.
- Finalized the agenda for the workshop, “Step Up for Safety: Rectangular Rapid Flashing Beacons and the Journey to Enhanced Crossings.”
- Continued responding to comments and providing revised versions of presentations for the workshop.
- Developed and refined poll questions from the presenters for use during the workshop for audience participation and information gathering.
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on February 26, 2025.

LTL

- Resumed the data collection upon the execution of contract modification in January 2025.
- Received traffic movement count (TMC) data from a third-party vendor for a sample of intersection sites (25 from CA and 25 from TX) and reviewed the data to make sure it met the project needs and to see if there were any follow-up questions.
- Requested and received TMC data from the third-party vendor for all of the study sites in CA and TX.
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on February 26, 2025.

CED

- Continued responding to comments and providing revised versions of draft Technical Report and TechBrief.
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on February 26, 2025.

ARS

- Completed the economic analyses for both shoulder and centerline ARS applications.
- Drafted and submitted the first draft of the technical report.
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on February 26, 2025.

FOD

- Completed development of the Texas and Pennsylvania database (crash and AADT data merging).
- Conducted cross-sectional statistical analysis and submitted the technical memorandum about the results.
- Developed a quarterly progress report and presented the progress summary at the quarterly progress review meeting on February 26, 2025.

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 on report, techbrief, and workshop presentations related to RRFB.
- Begin obtaining and processing the TMC data and developing turning count estimates for CA and TX sites among the LTL study sites.
- Begin developing estimated average daily traffics for sites in CA using third-party vendor's tool for LTL.
- Address editor comments on draft technical report and techbrief for CED when received.
- Revise the draft technical report in response to comments and begin drafting a techbrief for ARS.
- Prepare a briefing material about analysis results of FOD study and begin drafting the technical report.

Significant Results:

- Completed statistical analyses for ARS and FOD studies and resumed 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).

No new problems.

Potential Implementation:

N/A