TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): FHWA

INSTRUCTIONS:
Project Managers and/or research project investigators 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)	
Project Title: The Evaluation of Low Cost Safety Improvements Pooled Fund Study (ELCSI-PFS)		
Name of Project Manager(s): Roya Amjadi	**Phone Number:** 202-493-3383	**E-Mail** roya.amjadi@dot.gov
Lead Agency Project ID: TPF-05(317)	**Other Project ID (i.e., contract #):** N/A	**Project Start Date:** 05/2005
Original Project End Date: 05/2010	**Current Project End Date:** 2017	**Number of Extensions:** 1

Project schedule status:

☐ On schedule ☐ On revised schedule ☑ Ahead of schedule ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
$4,380,000	$3,949,000	310%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$141,000	N/A	N/A

Project Description:

FHWA has initiated the Low Cost Safety Improvements Pooled Funds Study to encompass safety-effectiveness evaluations of priority strategies from the NCHRP Report 500. The goal of the proposed research is to develop reliable estimates of the safety effectiveness of safety improvements identified as strategies in the NCHRP Report 500 Guidebooks through scientifically rigorous "Before"-"After" (B/A) evaluations of sites within the U.S. where these strategies are being implemented. The data for the study will be gathered from those states that implement the strategies throughout the US. The methodology utilized will typically be an Empirical Bayes evaluation or other appropriate method, using B/A data to help determine their effectiveness in reducing the number and severity of crashes. The data will be collected, and evaluation studies performed, as the strategies are implemented over the course of several years.

Phase I- The first phase (retro-respective) of evaluations is completed and published for;
1. Safety Evaluation of Increasing Retroreflectivity of STOP Signs
2. Safety Evaluation of Flashing Beacons at STOP-Controlled Intersections
3. Safety Evaluation of STOP AHEAD Pavement Markings
4. Safety Evaluation of Installing Center Two-Way Left-Turn Lanes on Two-Lane Roads

Phase II- The second phase (retro-respective) of evaluations is completed and published for;
1. Safety Evaluation of Improved Curve Delineation
2. Safety Evaluation of Offset Improvements for Left-Turn Lanes
3. Safety Evaluation of Lane and Shoulder Width Combinations on Rural, Two-Lane, Undivided Roads
4. Safety Evaluation of Advance Street Name Signs

Phase III, Part 1- The third phase (part-one, strategy implementation) of evaluations is completed. This phase is a

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

NEWS:
1. The ELCSI-PFS, Annual TAC Meeting will take place On May 10-11, 2016, in FHWA, TFHRC in McLean VA.
2. The HSIP, Peer-to-Peer exchange will follow the TAC meeting on May 12, 2016, in FHWA National Highway Institute in Arlington, VA. This meeting is sponsored by FHWA, Office of Safety.
3. The ELCSI-PFS's Safety Evaluation of HFST paper titled "Quantifying the Safety Effects Pavement of Friction Improvements Results from a Large Scale Study" was accepted to be published in the International Journal of Pavement Engineering on March 2016.
4. The ELCSI-PFS's Safety Evaluation of Continuous Green T Intersection paper was accepted for the publication in the Accident Analysis and Prevention Journal in April 2016.
5. The ELCSI-PFS will advance safety research by advancing its statistical tools through an expert statistician support team.

RECEIVED DELIVERABLES FOR:
1. Draft technical report for Safety Evaluation of Multiple Strategies at Stop-Controlled Intersections
2. Draft technical report for Safety Evaluation of Multiple Strategies at Signalized Intersections
3. Draft technical report for safety evaluation of restricted crossing u-turn intersection (RCUT)
4. Draft technical report for Safety Evaluation of Cable Median Barriers in Combination with Rumble Strips on the Inside Shoulder of Divided Roads
5. Draft tech brief for Safety Evaluation of Red Light Indicator Lights (RLILS)
6. Draft technical report for Safety Evaluation of Edge Line Rumble Stripes (ELRS) on Rural, Two-Lane Horizontal Curves

NEW TASKS

Anticipated work next quarter:

1- Conduct the ELCSI-PFS 2016 Annual TAC Meeting.
2- Conduct review of 6 new technical reports and tech brief and provide technical feedback to contractor
2- Manage 8 on-going ELCSI-PFS.
3- Manage 3 on-going DCMF studies.
4- Award and Manage the DCMF, Expert Statistician Expert Team study.
5- Prepare Proposal Request package for four new ELCSI-PFS studies .
8- Continue work on publications.
9- Review and finalize studies near completions.
10- Attend meetings.
11- Keep up communication with TAC members.
12- Keep up cooperation with American Statistical Association.
13- Other related efforts.

Significant Results:

RECEIVED DELIVERABLES FOR:

1. Draft technical report for Safety Evaluation of Multiple Strategies at Stop-Controlled Intersections
2. Draft technical report for Safety Evaluation of Multiple Strategies at Signalized Intersections
3. Draft technical report for safety evaluation of restricted crossing u-turn intersection (RCUT)
4. Draft technical report for Safety Evaluation of Cable Median Barriers in Combination with Rumble Strips on the Inside Shoulder of Divided Roads
5. Draft tech brief for Safety Evaluation of Red Light Indicator Lights (RLILS)
6. Draft Safety Evaluation of Edge Line Rumble Stripes (ELRS) on Rural, Two-Lane Horizontal Curves

NEW TASKS

1. The Safety Evaluation of High Friction Surface Treatments is active now. This ELCSI-PFS evaluation received $175,000 of the FHWA, Every Day Counts 2 (EDC-2) funding.
2. The Expert Statistician Support Team task Proposal Request package was prepared and approved by TFHRC, Office of Safety R&D. The ELCSI-PFS funding for $90,000 was approved by TAC members, and the DCMF funding of $X (to be disclosed later) was approved by FHWA.

PUBLICATION PROGRESS:

1. Completed Publication FHWA-HRT-15-083 , Tech Brief for " Safety Evaluation of Wet Reflective Pavement Marking"
2. Completed Publication FHWA-HRT-16- 036, Technical Report "Safety Evaluation of Continuous Green T Intersection"
3. Completed Publication FHWA-HRT-16- 035, Technical Report for "Safety Evaluation of Intersection Collision Warning System"

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).

FHWA, TFHRC publication office is currently is short of staff and the ELCSI-PFS publications may take a little longer than usual.

Potential Implementation:

N/A