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(099)	**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(099)	**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:** none

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	$3,318,54	205%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$66,003	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.):

The ELCSI-PFS has 19 ongoing evaluations and from this set of evaluations, Edgeline Rumble StripEs on Curves is 90% completed, , Combination of Median Barrier & Rumble Strips is 90% completed, Active Intersection Warning Systems/Dynamic Signing is 90% completed, and Red Light Indicator Lights is 85% completed.

Following are progress made in the last quarter.
1- Completed activities for Focus Crash Types and Risk Factors;
- Reviewed technical proposal for DCM and awarded contract on August 2014.
- The Kick-off meeting was held on September 2014.
- Work plan was designed.

2- Completed final review for Combination of Centerline and Edgeline Rumble Strip. This study will go to publication in January of 2014.
3- Received and reviewed the draft technical paper for the Evaluation of Edgeline Rumble StripEs on Rural Horizontal Curves. This study needs more data and technical modifications per this requirement.
4- Received TAC ballot results per the 10th annual Technical Advisory Committee Meeting, and it was distributed to TAC members and CMFs stakeholders.
5- Sent the CMF Research Needs Assessment Workshop Summary for publication. This was a FHWA sponsored workshop and conducted on May, 2014.
6- Conducted Feasibility study for ELCSI-PFS, High Friction Surface Treatments, Part 2 and scheduled it for 2015 study. The part one of this study was conducted under the Phase VI, Pavement Safety Performance and enough data was not available for conducting an Empirical Bayes analysis.
7- Conducted Feasibility study for Safety Evaluation of Clear Zone for systemic application for roadside fixed objects improvements and have scheduled it for 2015 study.

Anticipated work next quarter:

1- ELCSI-PFS, High Friction Surface Treatments, Part 2
- Develop Statement of Work
- Receive and Review Technical Proposal
- Award Contract

2- Safety Evaluation of Clear Zone for Systemic Applications
- Develop Statement of Work
- Receive and Review Technical Proposal
- Award Contract

3- Start Publication process for Combination of Centerline and Edgeline Rumble Strip

4- Receive final draft reported for;
- Edgeline Rumble StripEs on Curves (revised)
- Combination of Median Barrier & Rumble Strips
- Active Intersection Warning Systems/Dynamic Signing
- Red Light Indicator Lights.

5- Manage Phase III - Part 2.

6- Manage Phase V- Part 2.

7- Manage Phase VII.

8- Manage Phase VIII.

9- Manage the Focus Crash Type Risk Factors study

10- Plan and prepare for the ELCSI-PFS, 11th Technical Advisory Committee (TAC) Meeting in 2015.

11- Develop an action list to follow up with ASA for cooperations on developing new methodologies for safety applications.

Significant Results:

The ELCSI-PFS has 19 ongoing evaluations and from this set of evaluations, Edgeline Rumble StripEs on Curves is 90% completed, , Combination of Median Barrier & Rumble Strips is 90% completed, Active Intersection Warning Systems/Dynamic Signing is 90% completed, and Red Light Indicator Lights is 85% completed.

1- Completed activities for Focus Crash Types and Risk Factors;
- Reviewed technical proposal for DCM and awarded contract on August 2014.
- The Kick-off meeting was held on September 2014.
- Work plan was designed.

2- Met with American Statistical Associations (ASA) executive director for discussing opportunities for continuous future cooperations to develop new statistical methodologies for highway safety evaluation and research.

3- Completed final review for Combination of Centerline and Edgeline Rumble Strip. This study will go to publication in January of 2014.

4- Conducted Feasibility study for Safety Evaluation of Clear Zone for systemic application for roadside fixed objects improvements.

5- Conducted Feasibility study for ELCSI-PFS, High Friction Surface Treatments, Part 2.

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 risk or challenges has been identified.

Potential Implementation:

N/A