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	$3,062,855	175%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$98,169	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.):

1- State of Washington has joined the ELCSI- PFS in this quarter. Currently, the ELCSI-PFS has 37 member States.
2- The DCMF, Task B1 (FHWA sponsored) for evaluation of 6 new strategies is active. This contract kicked off on September 2013. Currently, Phase VIII for two new strategies is active under the Task B1.
3- Currently DCMF, Task B2 (FHWA sponsored) on-going. This task is to find new statistical methodologies and improve current ones for B/A evaluation of highway safety improvements to benefit the ELCSI-PFS. Nine American Statistical Association experts met with FHWA and the task contractor for a two-day meeting on December 11 and 12, 2013.
4- The Task B3 for CMF gap assessment analysis and CMF stakeholders meeting (FHWA sponsored) was awarded on October 10, 2013. This task is to benefit ELCSI-PFS.
5- Designed work plan for above Task B3 in December of 2013.
6- Completed the ELCSI-PFS, Phase VI for pavement safety performance for evaluation of 9 pavement types including the HFST.
6- Conducted Risk Assessment for ELCSI-PFS, Phases VII and VIII.
9- The Winter Fatal Crash study was completed using FARS data in December of 2013.
10- Managed Phase III - Part 2
11- Managed Phase VI- This contract is completed
12- Managed Phase VII
13- Managed Phase VIII
14- Managed DCMF, Task B2

Anticipated work next quarter:

1- Work with American Statistical Association to develope a white paper for new statistical methodologies and improving existing ones.
2- Conduct outreach and communication for followings at the Transportation Research Board (TRB) for;
- TRB presentation for ELCSI-PFS systemic safety evaluations_ Session 158, Application of Systematic Approach to Safety on 01/12/14
- TRB presentation for new statistical methodologies for B/A evaluations_ Joint Subcommittee on Future Directions in Road Safety Analysis Committee on Safety Data Analysis & Evaluation (ANB20 – lead) and Committee on Highway Safety Performance (ANB25) on 01/13/14
- Cochair subcommittee meeting_International Research Needs Subcommittee A0010(02) for CMF applications on 01/13/14
- TRB Presentation for Winter Fatal Crash study_ Winter Maintenance Committee AHD65 on 01/14/14
- TRB Presentation for Phase VI for Pavement Safety Performance_ Surface Properties and Vehicle Interaction Committee AFD90 on 01/14/14.

3- Manage Task B3 for CMF Research Needs and Stakeholder Meeting.
4- Complete the DCMF, Task B2 for new statistical methodologies for B/A safety evaluations.
5- Manage Phase III - Part 2
6- Manage Phase VII
7- Manage Phase VIII
8- Manage DCMF, Task B2
9- Manage DCMF, Task B3
10- Conduct feasibility study for more strategies to be conducted under Phase VIII.

Significant Results:

1- The State of Washington has joined this PFS. Currently, the ELCSI-PFS has 37 member States.
2- DCMF Task B2 started for finding new statistical methodologies and to improve current ones for B/A evaluation of highway safety improvements to benefit the ELCSI-PFS.
3- DCMF Task B3 started for the CMF Research Needs and Stakeholder Meeting.
4- The Winter Fatal Crash study was completed using FARS data in December of 2013.

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