

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 # TPF-5(065)		Transportation Pooled Fund Program - Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input checked="" 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)	
Project Title: Traffic Control Devices Pooled Fund Study			
Name of Project Manager(s): Jim Shurbutt, FHWA Bryan Katz, Leidos	Phone Number: (202) 493-3420 (202) 493-3388	E-Mail Jim.shurbutt@dot.gov bryan.katz@dot.gov	
Lead Agency Project ID: TPF-5(065)	Other Project ID (i.e., contract #):	Project Start Date: October 1, 2002	
Original Project End Date: N/A Continuing Effort	Current Project End Date:	Number of Extensions:	

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
\$4,100,888	\$3,483,753	Ongoing Project (N/A)

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
No new projects allocated		Ongoing Project (N/A)

Project Description:

The purpose of the TCD PFS is to assemble a consortium composed of regional, State, local entities, appropriate organizations and the FHWA to 1) establish a systematic procedure to select, test, and evaluate approaches to novel TCD concepts as well as incorporation of results into the MUTCD; 2) select novel TCD approaches to test and evaluate; 3) determine methods of evaluation for novel TCD approaches; 4) initiate and monitor projects intended to address evaluation of the novel TCDs; 5) disseminate results; and 6) assist MUTCD incorporation and implementation of results.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**Traffic Control Devices Pooled Fund Study Technical Support**

In April, the TCD PFS Annual Meeting was held in Boston, Massachusetts to provide members with a project update, discussion of current projects, and discussion of new project ideas. Leidos coordinated all travel arrangements and has been working with members to reimburse expenses. Current projects and new projects were discussed at the NCUTCD meeting in June.

Countdown Pedestrian Signals

Pedestrian signal vendor is willing to implement changes to traffic signal controllers after obtaining permission to experiment. The vendor has demonstrated the ability to produce the required configurations that were built for Phase I. The Phase I report was delivered to FHWA. Sites in Michigan will be examined and Michigan DOT has provided permission to proceed. Sites will be prioritized in Detroit since crosswalks have large numbers of pedestrians.

Pavement Signing

Seven locations were selected for field evaluation with 1 in Missouri, 4 in Kansas, and 1 in Wisconsin. Requests for experimentation have been drafted for submission to FHWA. Before data collection have been completed in Wisconsin and Kansas.

Legends for Incident Management Signs

Materials have been drafted and tested with pilot participants. The IRB submission was updated and approved with data collection in July. The estimated sample size is 100.

Lane Line Markings in Advance of Lane-Reduction Transitions

On 4/28, Leidos received Task Order 4 for this task on 5/22. The work plan is under development and a request for additional known literature has been made.

Intersection Conflict Warning Systems Human Factors Research

A meeting to discuss task with GTM took place on 5/30. Discussed the project kickoff. In addition to wording on signs, we are to look at flash rate/pattern and flasher location. Leidos was tasked to generate list of questions to ask states. Attended ELCSI TPF session in which intersection conflict warning systems were discussed and the latest crash reduction findings were presented. Requested updates on the crash reduction findings when they become available. Used Google Earth to view intersections with the ICWS treatments in North Carolina, Missouri, and Minnesota. Prepared outline for the literature review. Continued reviewing literature.

Anticipated work next quarter:

Traffic Control Devices Pooled Fund Study Technical Support

- Develop new problem statements and select the next round of projects.
- Continue tracking project funding and provide technical support to members and perform outreach on past and current projects as requested.

Countdown Pedestrian Signals

- Development of the field research plan.

Pavement Signing

- Continue collecting before data.
- Procure and install treatments in KS, WI, and MO.

Legends for Incident Management Signs

- Collect data and continue working on draft report.

Lane Line Markings in Advance of Lane-Reduction Transitions

- The literature search thus far has revealed little work examining lane drops not associated with exit lanes. This suggests that there is a need for research in this area.

Intersection Conflict Warning Systems Human Factors Research

- The early data presented at the Evaluation of Low Cost Safety Improvements TPF meeting suggest substantial crash reductions in all three states. This should make suggested Human Factors standards for these treatments more relevant.

Significant Results:

Past projects have led to significant results and changes that were incorporated into the 2009 MUTCD, particularly from the Symbol Sign, Arrow Per Lane Guide Signs, and Roundabout Signing studies. Recent studies are being considered by the MUTCD for incorporation into the 2016 MUTCD.

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 challenges or problems encountered.

Potential Implementation:

All results from the Traffic Control Devices Pooled Fund Study are presented to the National Committee on Uniform Traffic Control Devices (NCUTCD) and are considered by FHWA for inclusion in subsequent MUTCD versions.