TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): FHWA				
INSTRUCTIONS: Project Managers and/or research project invequarter during which the projects are active. It each task that is defined in the proposal; a pethe current status, including accomplishments during this period.	Please provide rcentage com	e a project schedule stat pletion of each task; a c	tus of the research activities tied to oncise discussion (2 or 3 sentences) of	
Transportation Pooled Fund Program Project # TPF-5(065) and TPF-5(316)		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: Traffic Control Devices Pooled Fund Study	,			
Name of Project Manager(s): Pho		ber:	E-Mail	
Jim Shurbutt, FHWA	(202) 493-3420		Jim.shurbutt@dot.gov	
Bryan Katz, Leidos Lead Agency Project ID:	(202) 493-3388 Other Project ID (i.e., contract #):		bryan.katz@dot.gov Project Start Date:	
TPF-5(065) and TPF-5(316) Original Project End Date:	Current Pro	ioct End Date:	October 1, 2002 Number of Extensions:	
Original Project Life Date.	Current Project End Date:		Number of Extensions.	
N/A Continuing Effort				
Project schedule status: On schedule On revised schedule	ule 🗆	Ahead of schedule	☐ Behind schedule	
Overall Project Statistics:				
Total Project Budget	Total Cost to Date for Project		Percentage of Work Completed to Date	
\$3,220,074 (TOTAL) \$1,019,602 (FHWA) \$1,241,074 (FMIS + Lockbox up to FY 2008) \$1,979,000 (Delphi)	\$2,626,004.91 (TOTAL) \$1,019,602 (FHWA) \$860,000 (FMIS) \$746,402.91 (Delphi)		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

During the quarter, the TCD PFS held its annual meeting in Atlanta, GA. During this time, existing projects were discussed and new projects were prioritized. A new symbol sign study will be performed using available funding and then other topics will be finalized once problem statements are generated. The new potential topics include:

- Lane Reduction vs. Lane Drop signing and marking
- Guide Signing for U-Turn Intersections
- o Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts
- Simplification of Channelization Device Delineation Patterns
- Pedestrian information needs with regard to activated beacons

Lane Line Markings in Advance of Lane-Reduction Transitions

Examples of scenarios developed and software capabilities were presented at the annual TCD PFS meeting. The CADD Software Suite is continued to be used to develop scenarios for participant testing.

Intersection Conflict Warning Systems Human Factors Research

Intersections of all three types (2-lane by 2-lane, 2-lane by 4-lane, 2-lane by 4-lane divided) of stop controlled intersections have been modeled. All signs to be tested have been constructed. The only remaining challenge is that text signs are less legible than desired. We are working with the software vendor to address this issue.

Countdown Pedestrian Signals Legibility and Comprehension without Flashing Hand

Collection of follow-up data is complete. Data analysis is continuing. Work on the draft final report is continuing. The draft final report for Phase II will be completed in the next quarter and distributed to members for comment. Preliminary analysis suggests fewer people are still in the crosswalk when cross traffic is released during the countdown timer alone condition.

Anticipated work next quarter:

Traffic Control Devices Pooled Fund Study Technical Support

The symbol sign study will begin and problem statements will be generated for new topics.

Lane Line Markings in Advance of Lane-Reduction Transitions

Scenario development will be completed and participant data collection will begin.

Intersection Conflict Warning Systems Human Factors Research

Data collections will be completed, or nearly so.

 Countdown Pedestrian Signals Legibility and Comprehension without Flashing Hand The draft final report for Phase II will be completed in the next quarter and distributed to members for comment. 			
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.			