**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.*

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| **Transportation Pooled Fund Program Project #***TPF-5(065)* | **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):**Jim Shurbutt, FHWABryan Katz, Leidos | **Phone Number:**(202) 493-3420(202) 493-3388 | **E-Mail**Jim.shurbutt@dot.govbryan.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:

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|  **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:

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|  **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) |

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| **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.  |

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| **Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**Traffic Control Devices Pooled Fund Study Technical SupportLeidos worked on developing new problem statements and also worked on the analysis of various guide sign designs as part of the original ATSSA guide sign project proposal. Countdown Pedestrian SignalsPermission to Experiment was received from FHWA: experiment number and title 4(09)-45 (E) – Countdown Pedestrian Signal without a Flashing Don’t Walk Display – Michigan DOT. This task is complete. The plan was submitted to FHWA, and feedback was received. The revised field research plan was approved. This task is complete. Baseline data collection is continuing.Two papers summarizing the Phase I research were submitted to the Transportation Research Board (TRB) Annual Meeting for presentation. Both papers are being considered for publication.Pavement SigningData collection and analysis has been completed and a webinar was held to discuss project findings.Legends for Incident Management SignsData collection and analysis has been completed and a webinar was held to discuss project findings.Lane Line Markings in Advance of Lane-Reduction TransitionsThe work plan has been submitted and approved for this work. On 9/23, the Principal Investigator held a project kick off meeting with the FHWA team and members of the national committee. Questions and comments were addressed. Intersection Conflict Warning Systems Human Factors ResearchLeidos worked on literature review write-up, conducted the kickoff meeting, and began plans for training on the new Autodesk Civil 3D tools. The team also reached out to North Carolina DOT to obtain information that will serve as inputs to the design.  |
| **Anticipated work next quarter**:Traffic Control Devices Pooled Fund Study Technical Support* Complete 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.
* Begin planning next annual meeting

Countdown Pedestrian Signals* The treatment will be implemented in October for all four crosswalk legs at both crosswalks.

Pavement Signing* Project closeout

Legends for Incident Management Signs* Project closeout

Lane Line Markings in Advance of Lane-Reduction Transitions* Scenario development will occur in accordance with the work plan.

Intersection Conflict Warning Systems Human Factors Research* Will deliver revised work plan. Four team members will complete Autodesk Civil 3d and Infraworks training. Will begin stimulus development for experiments.
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| **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. |

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| **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. |