**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(447)* | **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):**Laura Mero, FHWAJose Calvo, Leidos | **Phone Number:**(202) 493-3377---------------- | **E-Mail**Laura.Mero@dot.govJose.A.Calvo@leidos.com  |
| **Lead Agency Project ID:**TPF-5(447) | **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** |
| Values indicate total commitments2016 – $325,0002017 – $375,0002018 – $290,0002019 – $335,000 2020 – $335,000 2021 – $405,000 | Ongoing Project (N/A) | 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** |
| Ongoing Project (N/A) | Ongoing Project (N/A) | 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 Support* Held Q3 meeting and distributed Q3 meeting minutes
* Maintained, updated, and consolidated TCD PFS contact lists
* Continued developing new SharePoint/MS Teams site
* Completed round 1 of publication review for TCD PFS report “Countdown Pedestrian Signals (CPS) Legibility and Comprehension without Flashing Hand: Phase I and II Final Report.”
* Edited, reformatted and completed MUTCD team review of TCD PFS Techbrief “Traffic Control Devices Pooled Fund Study: Signing for Intersection Geometrics that Require U-Turns.“
* Held bi-weekly meetings

**Sign Guidance for Zipper Merge*** Laboratory data collection was analyzed
* The research team is finalizing site selection for field implementation

**Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts*** The research team has completed analysis and submitted the draft technical report

**Evaluation of Additional Alternatives of and Arrow Sizes for Overhead Arrow-per-Lane Guide Signs*** Trained research assistants on subject running protocols
* Reviewed experimental protocol with TOCOR and members of the MUTCD team and made changes based on feedback
* Amended IRB to reflect updated COVID-19 safety protocols
* Finished programing experimental protocol
* Conducted pilot testing and verification of pilot data
* Created participant documents and trained research assistants on subject running protocols
* Began data collection
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| **Anticipated work next quarter**:Traffic Control Devices Pooled Fund Study Technical Support* Plan and hold Q4 meeting
* Distribute Q4 meeting minutes
* Continue developing new MS Teams site and provide access to site to members
* Continue maintaining, updating, and consolidating TCD PFS contact lists
* Continue holding bi-weekly meetings
* Continue tracking contributions
* Update the 6 remaining (of 8) past TCD PFS reports for 508 compliance and public affairs approval

**Sign Guidance for Zipper Merge*** Field data collection will be completed

**Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts*** The research team will revise the draft technical report based on FHWA comments

**Evaluation of Additional Alternatives of and Arrow Sizes for Overhead Arrow-per-Lane Guide Signs*** Continue to recruit Federal staff
* Continue data collection
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| **Significant Results:**Past projects have led to significant results. Summaries of the research can be found on the pooled fund website. The contractor will provide results on the project Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts to members at the upcoming meeting and a final deliverable will be posted when finished. |
| **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).**Data collection efforts have been delayed or put on hold due to the COVID-19 pandemic. Currently conducting any project related work that can be completed using teleworking or modified procedures that reduce the risk of COVID-19. Participation in research conducted at FHWA Turner-Fairbank Highway Research Center is limited to federal staff. A timeline for expanding participation eligibility to the public and return to normal operation is unknown and continues to impact project schedules. These circumstances resulted in cancelation of the in-person annual meeting and data collection delays for Sign Guidance for Zipper Merge, Enhancing Conspicuity, and potentially Overhead Arrow-Per-Lane Guide Signs projects. |

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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. |