**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, FHWA David Kidd, Leidos | **Phone Number:**  (202) 493-3377 (202) 493-3423 | | **E-Mail**  [Laura.Mero@dot.gov](mailto:Laura.Mero@dot.gov) [David.Kidd.CTR@dot.gov](mailto:David.Kidd.CTR@dot.gov) |
| **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 commitments  2016 – $325,000  2017 – $375,000  2018 – $290,000  2019 – $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 Q2 meeting and distributed Q2 meeting minutes * Revised and finalized problem statements on pedestrian signing and advisory exit and ramp speed * Generated and distributed a poll to gather preferences on the research projects to pursue to address problem statements on pedestrian signing and advisory exit and ramp speed * Maintained, updated, and consolidated TCD PFS contact lists * Continued developing new SharePoint/MS Teams site * Updated past TCD PFS reports for 508 compliance and public affairs approval * Held bi-weekly meetings   **Sign Guidance for Zipper Merge**   * The team received IRB approval for the project * Laboratory data collection was completed * The research team is working with FHWA division offices and state agencies for field implementation plans.   **Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts**   * Extended after data collection was completed in Virginia * Eye tracking data was completed * The research team is analyzing both field traffic data and eye traffic data   **Evaluation of Additional Alternatives of and Arrow Sizes for Overhead Arrow-per-Lane Guide Signs**   * Met with the Lead Agency Contact, MUTCD Team, and Project Champions to discuss arrow sizes and visualizations * Completed multiple revisions of visualizations per Lead Agency, MUTCD Team, feedback * Developed post-study questionnaire * Integrated visualizations into data collection software * Received IRB approval |
| **Anticipated work next quarter**: Traffic Control Devices Pooled Fund Study Technical Support  * Plan and hold Q3 meeting * Report results from problem statement poll * Draft SOW for problem statement-based research * Continue planning new MS Teams site * Continue holding bi-weekly meetings * Continue tracking contributions   **Sign Guidance for Zipper Merge**   * Laboratory data collection will be analyzed * Field coordination will continue and implementation will begin   **Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts**   * The research team will complete data analysis and develop the final report   **Evaluation of Additional Alternatives of and Arrow Sizes for Overhead Arrow-per-Lane Guide Signs**   * Demonstrate research protocol to Lead Agency Contact, MUTCD Team, and Project Champions and incorporate feedback accordingly * Begin and complete pilot testing * Revise and finalize visualizations and post-study questionnaire based on pilot study feedback, as appropriate * Amend IRB application to reflect updated Federal and State COVID-19 pandemic guidance * Recruit Federal staff and begin data collection |

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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 next 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).**  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. |