**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 Matthew Marchese | **Phone Number:**  (202) 493-3377 (202) 493-3380 | | **E-Mail**  [Laura.Mero@dot.gov](mailto:Laura.Mero@dot.gov) [Matthew.Marchese.CTR@dot.gov](mailto:Matthew.Marchese.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 Q1 meeting * Distributed Q1 meeting minutes * Revised problem statements and submitted second draft for review * Continued developing new SharePoint/MS Teams site * Michigan DOT joined the TCD PFS * Kent County, MI joined the TCD PFS * Held bi-weekly meetings * Continued tracking contributions   **Sign Guidance for Zipper Merge**   * The team continues working with the IRB at NC State and has submitted revisions based on IRB comments. * The research team developed a list of sites for consideration and will begin working with FHWA division offices and state agencies for field implementation.   **Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts**   * The research team deployed sensors and cameras in Virginia for extended after data collection.  All other traffic data have been collected. * The research team began eye tracking testing at the Virginia site   **Evaluation of Additional Alternatives of and Arrow Sizes for Overhead Arrow-per-Lane Guide Signs**   * Submitted final workplan * Began developing visualizations * Submitted first draft of visualizations * Met with the Lead Agency Contact, MUTCD Team, and Project Champions to discuss arrow sizes and visualizations * Submitted IRB application |
| **Anticipated work next quarter**: Traffic Control Devices Pooled Fund Study Technical Support  * Revise problem statements * Plan and hold Q2 meeting * Implement new SharePoint and teams site * Continue holding bi-weekly meetings * Continue tracking contributions   **Sign Guidance for Zipper Merge**   * Laboratory data collection will begin after IRB approval. * Field coordination will continue.   **Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts**   * Extended after data will be completed in Virginia * Eye tracking data will be completed * The research team will analyze both field traffic data and eye tracking data   **Evaluation of Additional Alternatives of and Arrow Sizes for Overhead Arrow-per-Lane Guide Signs**   * Receive IRB approval * Finalize visualizations * Setup study equipment * Begin pilot testing |

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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 put on hold due to the COVID-19 pandemic. Currently conducting any project related work that can be completed while teleworking. A return date is unknown and could impact project schedules. These circumstances resulted in cancelation of the in-person annual meeting and is projected to delay data collection 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. |