**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 Jose Calvo, Leidos | **Phone Number:**  (202) 493-3377 ---------------- | | **E-Mail**  [Laura.Mero@dot.gov](mailto:Laura.Mero@dot.gov)  Jose.calvo.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 Q4 meeting and distributed Q4 meeting minutes * Maintained, updated, and consolidated TCD PFS contact lists * Continued developing new SharePoint/MS Teams site * Completed round 2 of publication review for TCD PFS report “Countdown Pedestrian Signals (CPS) Legibility and Comprehension without Flashing Hand: Phase I and II Final Report.” * Obtained permission for FHWA to publish figures in TCD PFS: “Signing for Intersection Geometrics that Require U-Turns.“ * Completed round 2 and 3 of publication review and received Public Affairs approval for TCD PFS: “Signing for Intersection Geometrics that Require U-Turns.“ * Began transferring TCD PFS report: “Symbol signs”, from current PDF format to new pubs tech report template * Held bi-weekly meetings   **Sign Guidance for Zipper Merge**   * The research team completed data collection in New Hampshire   **Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts**   * The research team has submitted the final technical report. It has been submitted for publication.   **Evaluation of Additional Alternatives of and Arrow Sizes for Overhead Arrow-per-Lane Guide Signs**   * Continue to recruit Federal staff for data collection * Received permission to begin recruiting members of the general public beginning next quarter. |
| **Anticipated work next quarter**: Traffic Control Devices Pooled Fund Study Technical Support  * Plan and hold Q1 2022 meeting * Distribute Q1 2022 meeting minutes * Finalize new MS Teams site and provide access to site to members * Continue maintaining, updating, and consolidating TCD PFS master contact lists * Continue holding bi-weekly meetings * Continue tracking contributions * Continue updating past TCD PFS reports for 508 compliance and public affairs approval   **Sign Guidance for Zipper Merge**   * The research team will conduct data collection in Maryland and North Carolina * The research team will analyze data collected in New Hampshire   **Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts**   * The research team will revise the technical report based on FHWA publications comments   **Evaluation of Additional Alternatives of and Arrow Sizes for Overhead Arrow-per-Lane Guide Signs**   * Resume full 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 provided results on the project Enhancing Conspicuity for Standard Signs and Retroreflectivity Strips on Posts to members at the previous meeting. The contractor found that retroreflective strip on sign did not yield statistically significant results, but this may be due to the test taking place during the day, when it would be less conspicuous. In general, conspicuity treatments only minimally reduce driver speed. “Notice” header panels beacons, and flags may be more likely to impact driver speeds. 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 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. |