**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_\_1/30/2019\_\_\_\_\_\_\_\_\_

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 #***(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)*TPF-5(319), SRP-2(207) and TPF-5(052) | **Transportation Pooled Fund Program - Report Period:**[ ] Quarter 1 (January 1 – March 31)[ ] Quarter 2 (April 1 – June 30)[ ] Quarter 3 (July 1 – September 30)[x] Quarter 4 (October 1 – December 31) |
| **Project Title:**Transportation Management Center Pooled Fund Study |
| **Name of Project Manager(s):**Jimmy Chu | **Phone Number:**202-366-3379 | **E-Mail**Jimmy.chu@dot.gov |
| **Lead Agency Project ID:**DTFH61-06-D-0004-T-11008 | **Other Project ID (i.e., contract #):** | **Project Start Date:**Feb. 1, 2000 |
| **Original Project End Date:**Sept. 30, 2010 | **Current Project End Date:**Apr. 16, 2020 | **Number of Extensions:**3 |

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** |
| 4,382,976 | 2,768,697 | 63 |

***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** |
| 117,185 | 117,185 |  |

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| **Project Description**:The Transportation Management Center (TMC) Pooled Fund Study (PFS) serves as a forum to identify and address issues that are common among agencies that manage and operate TMCs and provides an opportunity for agencies to collectively take on those key issues and challenges. The TMC PFS also provides an opportunity to facilitate the interaction, sharing of information and successful practices with a broader audience to advance and improve upon the current state-of-the-practice related to the management, operation, and performance of TMCs. The goal of the TMC PFS is to assemble regional, state, and local transportation management agencies and the Federal Highway Administration (FHWA) to:* Identify human-centered and operational issues;
* Suggest approaches to addressing identified issues;
* Initiate and monitor projects intended to address identified issues;
* Provide guidance and recommendations and disseminate results;
* Provide leadership and coordinate with others with TMC interests; and
* Promote and facilitate technology transfer related to TMC issues nationally.
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| **Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**Capability and Usage Guidelines for Color Changeable Message Signs: The guidelines for using color full-matrix changeable message signs have been developed and will be published in the next quarter. The research work plan for a human factors study was approved by the TMC PFS project committee.Considerations of Current and Emerging TMC Data: The project was on schedule. A draft project report was delivered for review.Streaming Video Sharing and Distribution: The project kicked off in September 2018 and was on schedule. A draft letter report synthesizing information gathered through literature search was submitted to review. The project team held a conference call on December 13, 2018 to review the project progress and the draft letter report.A quarterly conference call was held on December 12, 2018. Members reviewed the progress of on-going projects and discussed the scopes, priorities and schedule of upcoming projects. |
| **Anticipated work next quarter**:Capability and Usage Guidelines for Color Changeable Message Signs: The human factors study will commence in January 2019 and carry through fall of 2019.Considerations of Current and Emerging TMC Data: A final project report will be submitted in January 2019.A quarterly conference call will be held in February 2018. |

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| **Significant Results:**The Human Factors Guidelines for TMCs have been published. This report presents a set of human factors guidelines to be used by organizations interested in developing, evaluating, or modifying their TMCs. TMCs vary greatly by institution and location, but all make critical financial investments in personnel, equipment, technology, and procedures. The intersection of those investment areas is vital to an efficiently run TMC and is at the heart of what is referred to as human factors. The guidelines herein provide human factors considerations based on empirical research, meta-analyses, usability testing, and standards to create the optimal work environment for TMC operators, managers, and supervisors in an attempt to improve decision-making and mitigate human errors. These factors are examined by raising awareness of design fallacies and human biases while endorsing performance by integrating adaptive automation, setting standard procedures, and designing for human limitation. (<https://www.fhwa.dot.gov/publications/research/safety/16060/16060.pdf>) |
| **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 issues have been encountered to date. |

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| **Potential Implementation:** Additional webinars to broadcast research results and products by the TMC pooled fund study will be arranged and rolled out on a quarterly basis. |