TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT – Q4/2023

Lead Agency (FHWA or State DOT): Washington State Department of Transportation (WSDOT)

INSTRUCTIONS:

Lead Agency contacts 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.

Transportation Pooled Fund Program Project # TPF-5(343)				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)			
TPF Study Title: Roadside Safety Research for	r MASH Im	plementation					
Lead Agency Contact: Mustafa Mohamedali, PE, PMP		Lead Agency Phone Number: 360-704-6307		Lead Agency E-Mail: mohamem@wsdot.wa.gov			
Lead Agency Tech Contact: Tim Moeckel, PE		Tech Phone Number: 360-704-6377		Tech E-Mail: moecket@wsdot.wa.gov			
Lead Agency Project ID: T4541		Other Project ID (i.e., contract #): GCB		Date of Quarterly Report Submission: 10/31/2023			
Project Start Date: 1/1/2016		Original Project End Date: 12/31/2021		If Extension has been requested, updated project End Date: 6/30/2024			
Project schedule status:							
☐On schedule	⊠On revised schedule			☐Ahead of schedule		☐ Behind schedule	

Overall Project Statistics (rounded -- and excluding bilateral and supplemental projects with individual states):

Commitments to date \$ (7yrs)	Obligations to date \$	% Obligated	Contracted to date \$	Expended to date \$	Expended to date %	Completed this quarter \$
7,205,363	6,751,686	93.70%	6,605,148	5,866,813	89%	545,952

Project Description:

Project website: https://www.roadsidepooledfund.org/ (members only)

The Roadside Safety Research for MASH Implementation program is designed to conduct research on roadside safety priorities for research projects aligned with the MASH implementation completion schedule. The compliance dates for MASH roadside safety hardware are:

- December 31, 2017: W-beam barriers and cast-in-place concrete barriers
- June 30, 2018: W-beam tangent terminals
- December 31, 2018: Crash cushions
- December 31, 2019: Bridge rails, transitions, all other longitudinal barriers (including portable barriers installed permanently), all other terminals, sign supports, other breakaway hardware, cable barriers, cable barrier terminals
- Also, temporary work zone devices, including portable barriers, manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH.

Washington State Department of Transportation is the lead agency for this pooled fund study. Texas A&M Transportation Institute (TTI) is the lead Principal Investigator and crash test site. A website is available to those interested in completed and ongoing research as well as the work plan for new inquiries.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

The following tasks were completed in this quarter:

- The following new Task Orders were issued this quarter:
 - 1. T4541-FH: Summary Report for Pooled Fund Program TPF-5(343)
- Work continued on the following projects:
 - 1. T4541-EM: Multi-Directional Base Design for Steel Beam Non-Proprietary Large Sign Supports: Phase I
 - 2. T4541-ES: MASH 4-12 Evaluation of a Fence Mounted System for Attachments to Concrete Bridge Barrier
 - 3. T4541-EV: MASH Crashworthy Pedestrian and Small Traffic Signals
 - 4. T4541-EX: Buried-in-Backslope Terminal Variations in Foreslope, Backslope, and Ditch Configurations
 - 5. T4541-FC: Evaluation of a Four Bolt Slip Base for breakaway Luminaire Supports with Various Pole Configurations
 - 6. T4541-FD: Portable Sign Supports for Aluminum Signs with Variations on Mounting Height
- Work was completed on the following projects:
 - 1. T4541-EQ: 2022 Program Development and MASH Coordination Effort
 - 2. T4541-ER: Engineering Support Services and Recommendations for Roadside Safety Issues/Problems for Member States
 - 3. T4541-EW: 2022 Administrative Support
 - 4. T4541-FB: MASH TL-3 Evaluation of a Median Guide Rail Transition to Median F-Shape Concrete Barrier
 - 5. T4541-FE: MASH Test level 3 Evaluation of a Shorter Thrie-Beam Approach Transition
 - 6. T4541-FF: Steel-Post W-Beam Guardrail in Asphalt Mow Strip
 - 7. T4541-FG: Evaluation of Open Joints in Concrete Bridge Rail Systems

Anticipated work next quarter:

 Continue carrying out the research plan for testing projects approved at the Fall 2023 Roadside Safety Pooled Fund Annual Meeting.

funds that were in arrears that member states eventually obligated at the end of last year.
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).
The researchers face a tight deadline and a pretty intensive schedule for the next 6 months or so in order to complete the portfolio of ongoing tasks and projects by the end of the year. Several meetings have been held by WSDOT with TTI and FHWA to identify the risks and opportunities the program faces as we close this important program and transition into the new TPF-5(501) Roadside Safety Pooled Fund - Phase 3. TTI remains confident that the scope of work that remains – about \$738k remaining on task orders, will be complete as planned by end-June 2024.
Potential Implementation:
Implementation ongoing following successful tests for MASH compliance.

Significant Results: