TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Maine DOT

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.

Transportation Pooled Fund Program Project # *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)*	**Transportation Pooled Fund Program - Report Period:**
TPF-5(373)	☑ 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:		
New England Transportation Consortium VII		
Name of Project Manager(s):	**Phone Number:**	**E-Mail**
Dale Peabody	207-624-3305	dale.peabody@maine.gov
Lead Agency Project ID:	**Other Project ID (i.e., contract #):**	**Project Start Date:**
23430.18		January 4, 2018
Original Project End Date:	**Current Project End Date:**	**Number of Extensions:**
June 30, 2022	June 30, 2022	0

Project schedule status:

☑ On schedule ☐ On revised schedule ☐ Ahead of schedule ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
$2,400,000	102,138.46	4%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$33,612.17 (56% of total funds spent)	$56,942.37	28%

Project Description:

A transportation research program, where research projects are conducted primarily by the Land Grant Universities of the New England states. This study was preceded by TPF-5(222), TPF-5(201), TPF-5(168), SPR-3(089), SPR-3(029), and SPR-3(009). Other State DOTs may participate in individual research projects by providing funds and a project technical committee member to represent their agency.

The New England Transportation Consortium (NETC) is a research cooperative between the state DOTs of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont. The NETC is a valuable regional partnership for the identification, prosecution and dissemination of shared transportation research initiatives. The NETC represents:

- Financial leveraging opportunities and regional partnerships.
- Stronger partnerships between university faculty and state DOTs.
- User-defined, diverse research topics.
- Opportunities for research dissemination and training to practitioners in the field.

Now in its third decade, the NETC was developed to help New England states meet their special research needs by pooling resources and expertise. The NETC is now a well-established successful multistate partnership.

The objective of the pooled fund is to pool the financial, professional and academic resources of the region and to use them to research and develop improved methods of dealing with common problems in the planning, design, construction, maintenance, rehabilitation, reconstruction, and operation of transportation systems in the participating states. The program is intended to supplement, not to replace, ongoing state and federal research activities and other national programs such as the Cooperative Research Programs of the National Academies.

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

Monthly Advisory Committee meetings held on 1/22/19, 2/26/19 and 3/13/19.

FY18 research cycle projects:

18-1: Development of MASH Computer Simulated Steel Bridge Rail and Transition Details - Roadsafe LLC

- Monthly project meetings held 1/24/19, 2/28/19 and 3/28/19.
- Task 1 (Lit Review and Preliminary Assessment of Current Designs) - Complete
- Task 2a (Finite Element Model Development and Validation) - Complete
- Task 2b (Development and Validation of NETC AGT to 2-Bar Bridge Rail Model) - Complete
- Task 3 (MASH TL4 Evaluation of NECT 3-Bar Bridge Rail) - Complete
- Task 4 (MASH TL4 evaluation of 3-Bar transition) - 40-50% complete
- Project is on schedule and on budget.

18-2: Framework of Asphalt Balanced Mix Design for New England Agencies – University of Massachusetts-Dartmouth

- Contract executed. Project time line: 2/5/19 - 6/30/20. Project budget: $127,499
- Kickoff meeting will happen in April.

18-3: Integration of Unmanned Aircraft Systems into DOTs

- MaineDOT is finalizing the contract.
- Kickoff meeting will happen in May.

18-4: Quick Response Project: ICNet Workshop - University of New Hampshire

Anticipated work next quarter:

Monthly Advisory Committee meetings to be held on 4/2/319, 5/28/19 and 6/25/19.

18-1: Development of MASH Computer Simulated Steel Bridge Rail and Transition Details - Roadsafe LLC
• Monthly project meetings to be held on 4/25/19, 5/23/19 and 6/27/19.
• Task 4 will be completed.
• Work will begin, and be completed, on Task 5 (MASH TL-4 Simulations for NETC 4-Bar Bridge Rail).
• Task 5: MASH TL-4 Simulations for NETC 4-Bar Bridge Rail
• Work will begin, and be completed, on Task 6 (MASH TL-4 Simulations for MaineDOT 4-Bar Transition).
• Work will begin, and be completed, on Task 7 (MASH TL-3 Simulations for NETC 2-Bar Bridge Rail).

18-2: Framework of Asphalt Balanced Mix Design for New England Agencies – University of Massachusetts-Dartmouth
• Kickoff meeting to be held 4/16/19 and work will begin on the project.

18-3: Integration of Unmanned Aircraft Systems into DOTs
• Contract will be executed.
• Kickoff meeting will be scheduled and work will begin on the project.

18-4: Quick Response Project: ICNet Workshop - University of New Hampshire
• Workshop will happen in April. UNH will submit final report. CTC will receive and pay final invoices for the project.

2019 NETC Symposium
• Final working group meetings will be held to finalize the details of the Symposium.
• The Symposium will take place on June 19 at the Grappone Center in Concord, NH.

FY19 research cycle projects:
• CTC will develop an initial SOW for the two selected 19-series projects.

Significant Results:

See Progress this Quarter.

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).

None.

Potential Implementation:

To be determined.