

**NEW ENGLAND TRANSPORTATION CONSORTIUM
QUARTERLY PROJECT PROGRESS REPORT**

- A. PROJECT NUMBER AND TITLE:** NETC 18-3, Integration of Unmanned Aircraft Systems (UAS) into Operations Conducted by New England Departments of Transportation
- B. PRINCIPAL INVESTIGATOR(s) & UNIVERSITY(s):** Jon Gustafson (WSP USA, Inc.)
- C. WEB SITE ADDRESS (If one exists):** None.
- D. START DATE (Per NETC Agreement):** April 16, 2019
- E. END DATE (Per NETC Agreement):** March 31, 2021
- F. ANTICIPATED COMPLETION DATE:** March 31, 2021
- G. PROJECT OBJECTIVES:** The objective of this research is to provide guidance to New England state DOTs regarding best practices when incorporating UAS into daily operations.
- H. REPORT PERIOD:** Quarter 3, 2019 (July 1 – September 30)
- I. ACCOMPLISHMENTS THIS PERIOD:** Task 1 activities were completed and the task report was submitted to the TAC for review on September 16, 2019. Current Task 2 activities underway include a literature review of UAS technologies and support systems, gathering product information, and developing questionnaires to distribute to select industry communities as a mechanism to validate product specifications and identify any performance issues.
- J. PROBLEMS ENCOUNTERED (If any):** None.
- K. TECHNOLOGY TRANSFER ACTIVITIES:** This project was featured in the VTrans Research and Innovation Showcase on September 11, 2019. A project fact sheet and poster was developed for the event and can be accessed here (see Item No. 22): <https://vtrans.vermont.gov/planning/research/2019Showcase>

L. STATUS BY TASK:

Task	Description	% Complete
Task 1	Explore UAS applications to support state DOT missions.	100%
Task 2	Identify up-to-date technologies and support systems necessary for the identified UAS applications.	1%
Task 3	Address challenges associated with the UAS technologies, FAA rules and regulations.	Not started
Task 4	Develop procedures to carry out these UAS applications.	Not started
Final Report	Compilation of research analysis and findings.	Not started
NETC Technology Transfer	NETC Technology Transfer toolbox including project fact sheet, poster, and webinar recording.	Not started
Overall		15%

- M. PERCENT COMPLETION OF TOTAL PROJECT:** 15%

N. ACTIVITIES PLANNED FOR NEXT QUARTER: Next quarter, it is anticipated that consensus will be reached on the specific transportation applications for each New England State DOT, which will calibrate subsequent tasks. Also, Task 2 will be completed by December 16, 2019 and result in the completion of the Task 2 report (due December 30, 2019), compiling Task 2 activities including market research on UAS technologies and support systems, product analysis, and industry outreach to understand what is being used effectively. After Task 2 is completed, a progress meeting with the NETC TAC will be held.

O. FINANCIAL STATUS:

As of: September 30, 2019

Total Project Budget: \$146,631.57

Total Expenditures: \$22,337