

**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 4, 2019 (October 1 - December 31)
- I. ACCOMPLISHMENTS THIS PERIOD:** Task 2 activities were completed and the task report was submitted to the TAC for review on December 31, 2019. Task 3 activities have not yet started.
- J. PROBLEMS ENCOUNTERED (If any):** None.
- K. TECHNOLOGY TRANSFER ACTIVITIES:** None.

**L. STATUS BY TASK:**

<b>Task</b>	<b>Description</b>	<b>% Complete</b>
<b>Task 1</b>	Explore UAS applications to support state DOT missions.	<b>100%</b>
<b>Task 2</b>	Identify up-to-date technologies and support systems necessary for the identified UAS applications.	<b>100%</b>
<b>Task 3</b>	Address challenges associated with the UAS technologies, FAA rules and regulations.	<b>Not started</b>
<b>Task 4</b>	Develop procedures to carry out these UAS applications.	<b>Not started</b>
<b>Final Report</b>	Compilation of research analysis and findings.	<b>Not started</b>
<b>NETC Technology Transfer</b>	NETC Technology Transfer toolbox including project fact sheet, poster, and webinar recording.	<b>Not started</b>
<b>Overall</b>		<b>26%</b>

**M. PERCENT COMPLETION OF TOTAL PROJECT:** 26%

**N. ACTIVITIES PLANNED FOR NEXT QUARTER:** Next quarter, it is anticipated that a progress meeting with the NETC TAC will be held to discuss findings from Task 2. Also, Task 3 activities will be underway including conducting six case studies (via interview) with representatives from each DOT to understand traditional workflows of selected transportation applications from Task 1 as well as define how to mitigate challenges with UAS tech and FAA regulations. This will require support from each

member of the NETC TAC to provide contact information and an introduction to a DOT representative for the selected transportation applications.

**O. FINANCIAL STATUS:**

**As of:** *December 31, 2019*

**Total Project Budget:** \$146,631.57

**Total Expenditures:** \$37,722