TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: <u>June 30, 2020</u>			
Lead Agency (FHWA or State DOT): _	_Indiar	na DOT	
NSTRUCTIONS: Project Managers and/or research project investigation of the project are active. Project task that is defined in the proposal; a perothe current status, including accomplishments aduring this period.	lease provide a centage compl	a project schedule statu etion of each task; a cor	s of the research activities tied to ncise discussion (2 or 3 sentences) of
Transportation Pooled Fund Program Project # (i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)		Transportation Pooled Fund Program - Report Period:	
		□Quarter 1 (January 1 – March 31)	
<u>TPF 5-387</u>		XQuarter 2 (April 1 – June 30)	
		□Quarter 3 (July 1 – 3	September 30)
		□Quarter 4 (October 1 – December 31)	
Project Title: Development of an Integrated Unmanned A	Aorial Systom	s (UAS) Validation Cor	ntor
Name of Project Manager(s): Phone Number			
Tommy E. Nantung	(765) 463-1521 ext. 248		tnantung@indot.in.gov
Lead Agency Project ID:	Other Project ID (i.e., contract #):		Project Start Date: 1/1/2019
Original Project End Date: 12/31/2022	Current Project End Date: 12/31/2022		Number of Extensions: None
Project schedule status:		V	
□On schedule □ On revised schedule	☐ Ahead of	f schedule X	Behind schedule
Overall Project Statistics:			
Total Project Budget	Total Cost to Date for Project		Percentage of Work Completed to Date**
\$575,000	\$153,906		42%
Quarterly Project Statistics:			
Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter		Total Percentage of Time Used to Date**
\$41,992	7.3%		66.7%

^{**}Since end date has been extended, project percentages have been updated (estimates)

Project Description:

This study proposes to develop the basic standards, protocols, and testing requirements that a given UAS must meet and demonstrate for a particular application.

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

- In spite of the COVID-19 pandemic, some progress has been made regarding further development of the obstacle course, camera optic requirements, and pilot mission planning skill requirements.
- While it was planned to hold an in-person meeting in the second quarter with the project sponsors, this was obviously not possible. Due to the lack of progress also anticipated, it is planned to hold a virtual meeting towards the end of the 3rd quarter or beginning of the 4th quarter of 2020 to give a full update on the progress.

Anticipated work next quarter:

- Continue with the development of testing protocols
- Schedule Project Panel meeting for some time in the 3nd or 4th Quarter of 2020.

Significant Results:

1. Progress has been made regarding the development of the obstacle course, camera optic requirements, and pilot mission planning skill requirements.

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).

1. The COVID-19 restrictions resulted in Purdue University shutting down entirely in Mid-march 2020. All access to laboratory facilities were halted effectively bringing all research to a standstill. In mid-June 2020, standard Operating Procedures were being developed for review by the University to begin safe operations. While video meetings between members of the research team were routinely held, actual on-site research was effectively stopped for the entire 2nd Quarter. It is anticipated progress will be made beginning in July 2020 as the University slowly opens.

Potential Implementation:

None to date