TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

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

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(337) Transportation Avalanche Research Pool (TARP)	☐ 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:		
Avalanche Detection Using Microwave Radar		
Name of Project Manager(s):	**Phone Number:**	**E-Mail**
David Reeves	303-757-9518	david.reeves@state.co.us
Lead Agency Project ID:	**Other Project ID (i.e., contract #):**	**Project Start Date:**
SAP PO 411014547	IFB 18-028 NM	8/30/2017
Original Project End Date:	**Current Project End Date:**	**Number of Extensions:**
12/31/2020	12/31/2020	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
$70,681	$7,916	10%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date

Project Description:

Avalanche Detection Using Microwave Radar

The purpose of this research project is to detect avalanches of different sizes using Ku-band radar, and determine our ability to make classifications based on size. We also hope to answer many other questions about the viability of using radar for this application

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

- Surveyed sites in CO, WA, WY, and UT
- Selected 2 CO sites, and 1 site in WA, WY, and UT each
- waiting on hardware to begin installation

Anticipated work next quarter:

It is expected that we will begin installation at the end of February. Once Installed, the radars will begin collecting data full time until winter ends. Each week, an individual on site will swap full hard drives with clean ones. While data collection is happening we will be working on developing and implementing algorithms to automate detection and notification.

Significant Results:

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: