State Planning and Research Program Quarterly Report

PROJECT TITLE : Develop Test Bed Software to Quality Plug & Play Technology		
OBJECTIVES : Develop a software suite that	at will be used to validate and	certify candidate Spreader
Controllers and AVL Equipment for complia		• •
Specification and Communications Protocol.		
PERIOD COVERED : 2019-04 to 2019-06		
PARTICIPATING AGENCIES: Minnesot	a Department of Transportation	on and the Clear Roads Technical
Advisory Committee	a Department of Transportation	
PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:
Lisa Jansen / Tom Peters	MnDOT Contract No.	
	132007	Planning
LEAD AGENCY: Mn/DOT		X Research & Development
	Federal Project Number:	
PRINCIPAL INVESTIGATOR:	TPF-5(218)	
Russ Brookshire, Parsons		
ANNUAL BUDGET : \$108,160.67	PROJECT EXPENDITURES TO DATE: \$ 97,947.60	
WORK COMPLETED:		
• Task 1 – Needs Assessment		
• Task 2 – Software Suite Development		
• Task 3 – Pilot Test		
• Task 4 – Guides and Instructions		
• Task 5 – Disaster Recovery Plan		
SUMMARY OF ACTIVITIES EXPECTE	D TO BE PERFORMED N	EXT QUARTER:
• Task 6 – Continued Support		
STATUS AND COMPLETION DATE:		
During the quarter, Parsons staff continued to	o interact and work with Bosch	h Rexroth development staff as they
completed testing of their interface. During t	his testing it was found that th	he test procedure and test bed
software required the spreader controller to s		1 1
spreader controller condition de neglect often the new or switch is typed off. It is typical for approader controllers to		

spreader controller send a packet after the power switch is turned off. It is typical for spreader controllers to support instead a hard power switch – all functions of the spreader controller are powered off when the power switch is turned off. The test procedure and test bed software have been updated to reflect this change.

Current Schedule for Next Quarter

- 2019-07 Continued Support
- 2019-08 Continued Support