

State Planning and Research Program Quarterly Report

PROJECT TITLE: Utilization of AVL/GPS Technology: Case Studies

OBJECTIVES: The goal of this project is to help state DOTs make more informed decisions with respect to implementation of AVL/GPS technology for winter maintenance. Much is known about what winter maintenance AVL/GPS technologies are available from different vendors as well as which highway agencies are making use of them. Highway agencies will significantly benefit from a deeper examination of winter maintenance AVL/GPS implementation. Detailed agency case studies developed in this project will bring to light more nuanced issues related to winter maintenance AVL/GPS. The project will highlight the types of issues that agencies should consider, provide guidance for successful implementation, and serve as possible templates for agencies to get the best value out of different levels of AVL/GPS applications.

PERIOD COVERED: February 9, 2017 – March 31, 2017

PARTICIPATING AGENCIES: Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

PROJECT MANAGER:

Debra Fick/ Tom Peters

LEAD AGENCY: Mn/DOT

PRINCIPAL INVESTIGATOR:

Ming-Shiun Lee, PhD, PE

SP&R PROJECT NO:

MnDOT Contract No.
1026092

Federal Project Number:
TPF-5(218)

PROJECT IS:

Planning
 Research & Development

ANNUAL BUDGET: \$113,697.53
(Project Budget)

PROJECT EXPENDITURES TO DATE: \$3,798.73

WORK COMPLETED:

- A project kickoff meeting was held on February 28, 2017.
- Task 1: Literature Search (90% complete) – The consultant team conducted literature search and review. A draft literature summary report was submitted on March 28, 2017.
- Task 2: Survey (10% complete) – The consultant team initiated the development of survey questions and design.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 1: Literature Search – The consultant team will review comments provided by the project committee on the draft literature summary report. Additional literature search and review will be performed as appropriate, and the Literature Summary Report will be finalized.
- Task 2: Survey – Survey questionnaire will be developed. Target agencies and their contacts will be identified and organized.

STATUS AND COMPLETION DATE:

The project is on schedule and on budget and will be completed by July 31, 2018.