

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: Automatic Spreading System – Clear Roads Organization

OBJECTIVES: long range goals are listed below from the requirement.

- 1) Identify and document hardware/software that will adapt to the existing control systems being utilized by various DOTs (both granular and liquid) focusing on limited input of ambient and roadway temperatures
- 2) Analyze the cost-effectiveness of those identified systems and examine/investigate the professional community on the usefulness, feasibility, and best practices of an automated spreading system
- 3) Create a reference guide that recommends cost-effective approaches to consider retro-fitting existing equipment to support automatic dispensing. Included in this analysis should be the necessary interface with an Automatic Vehicle Location/Geographic Information System (AVL/GIS) system that will facilitate automatic deployment of the material

PERIOD COVERED: 4/1/2013 – 6/30/2013

PARTICIPATING AGENCIES: Clear Roads Organization

PROJECT MANAGER: Tom Peters

LEAD AGENCY: Mn/DOT

PRINCIPAL INVESTIGATOR:
Dr. Gregory E. Thompson

SP&R PROJECT NO:
Mn/DOT Contract#: 99392
Fed Project#: TPF-5(218)

PROJECT IS:

☐ Planning
☒ Research & Development

ANNUAL BUDGET: \$69,550.00

PROJECT EXPENDITURES TO DATE: \$63,655.00

WORK COMPLETED: Prepared and submitted for review draft guides #1 and #3. Received feedback from Clear Roads members and incorporating into document.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER: Prepare guides #1 and #3 with comments incorporated. Prepare draft guide #2 for submittal and review.

STATUS AND COMPLETION DATE: Submitted a no cost extension request (approved), new contract completion date: 1/31/2014. Next quarterly report due is for the period of 7/1/2013 – 9/30/2013. Task 2 is anticipated to be completed end of August 2013.