### State Planning and Research Program Quarterly Report

**PROJECT TITLE:**  
*Quantifying the Impact New Capital Projects will have on Roadway Snow and Ice Control Operations*

**OBJECTIVES:**  
1. Survey other state DOTs for potential case studies  
2. Develop a Methodology  
3. Develop a Calculation Tool  
4. Apply the Tool to the Case Studies

**PERIOD COVERED:** October 1, 2015 – December 31, 2015

**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:** Jim Sullivan, University of Vermont

**ANNUAL BUDGET:** $145,622 (through January 31, 2017)  
**PROJECT EXPENDITURES TO DATE:** $38,375

**SP&R PROJECT NO:** MnDOT Contract No. 06428  
**PROJECT IS:** Planning

**PROJECT IS:** Research & Development

**FEDERAL PROJECT NUMBER:** TPF-5(218)

**WORK COMPLETED:**  
- Participated in the second of four project teleconferences  
- Completed the selection of case studies and began coordinating field data collection, mailed out GPS monitoring devices to four (4) case study sites in New Hampshire and Minnesota  
- Continued method development, integrating the RSIC model with the NRI model and the statewide travel model

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**  
- Continue field data collection using GPS devices in plow trucks in New Hampshire, Vermont, and Minnesota  
- Continue method development, integrating the RSIC model with the NRI model and the statewide travel model

**STATUS AND COMPLETION DATE:** In spite of the late start for the first project teleconference and the survey (one month late) in the first quarter, the project is still on schedule since these tasks are not on the critical path. The second task was started one month early to ensure that the project remained on schedule. Therefore, the project completion data is still projected to be January 31, 2017.