**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:** January 1, 2017 – March 31, 2017

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

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<thead>
<tr>
<th>PROJECT MANAGER:</th>
<th>SP&amp;R PROJECT NO:</th>
<th>PROJECT IS:</th>
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<tbody>
<tr>
<td>Debra Fick/ Tom Peters</td>
<td>MnDOT Contract No. 06428</td>
<td>Planning</td>
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<tr>
<td>LEAD AGENCY: Mn/DOT</td>
<td>Federal Project Number: TPF-5(218)</td>
<td>X Research &amp; Development</td>
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**TOTAL BUDGET:** $145,622

**PROJECT EXPENDITURES TO DATE:** 75%

**TOTAL BUDGET:** $145,622

**WORK COMPLETED:**

- Completed survey data collection and preliminary selection of case studies
- Completed the first round of field data collection for four case study routes in NH and Minnesota
- Completed the integrated RSIC model development and tested its application for Vermont
- Developed inputs for the integrated RSIC model for four case studies in Vermont
- Applied the integrated RSIC model to four case studies in Vermont
- Created and delivered presentation materials for the Task 2 deliverable
- Participated in the third of four teleconferences (kickoff, Task 1, and Task 2) and presented the preliminary results of Task 2
- Conducted the second round of field data for four case study routes in NH and Minnesota
- Began development of the MS Excel decision-support tool
- Began writing the Draft Project Report

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

- Complete development of the MS Excel decision-support tool
- Complete analysis of the second round of field data for case studies
- Complete the Draft Project Report, including recommendations for incorporating RSIC operations & maintenance considerations into the AASHTO Green Book
- Submit draft report for review
- Conduct webinar presentation
- Incorporate comments and submit final project report
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 were not on the critical path. The second task was started one month early to ensure that the project remained on schedule. However, since the project started in July 2015, the contracted 18-month duration did not include two winter seasons for field data collection. The end date was originally January 2017, but ending the project then would have made it impossible to get a second round of RSIC field data. Extending the project 6 months (to 7/31/17) will allow for a full 24-month duration providing adequate time to get the 2nd round of data, analyze it, and write the final report.