State Planning and Research Program **Quarterly Report**

PROJECT TITLE: Standardized Test Procedures for Ice Melting Capacity of Deicers

OBJECTIVES: The goal of this research is to evaluate the suitability of the mechanical rocker test as a standardized laboratory test that can realistically and robustly assess the performance of deicers is needed to allow DOTs to make data-driven procurement decisions.

PERIOD COVERED:

April 1, 2020 – June 30, 2020

PARTICIPATING AGENCIES:

Washington State University – Prime

Monte Vista Associates LLC – Subcontractor									
Roadtech, Inc Subcontractor									
PROJECT MANAGER: Tom Peters	SP&R PROJECT NO:	PROJECT IS:							
	MnDOT Project								
LEAD AGENCY: MnDOT	No. 1033080	Planning							
		X Research & Development							
PRINCIPAL INVESTIGATOR:	Federal Project No.								
Xianming Shi, Ph.D., P.E.	TPF-5(353)								
Washington State University									
ANNUAL BUDGET:	PROJECT EXPENDITURES TO DATE:								
\$74,086	\$4,881								

WORK COMPLETED:

Project Management

COVID-19 and associated lockup during the last quarter have slowed down the progress in this project. The work was on hold due to the Coronavirus outbreak and subsequent lock-down of campus etc., during April and May 2020. Note that the revised staffing plan was approved by the project panel and the research team was ready to proceed with the project in February 2020. A new kickoff meeting was held on Feb. 7, 2020.

Task 1. Mechanical Rocker Test Procedure Evaluation (17% complete). The project team continued to work with the panel members to finalize the list of liquid deicers of interest for testing. On the two received liquid samples, we have started some laboratory testing in June 2020. We also have been analyzing the data received from the previous Nebraska DOT projects related to the Mechanical Rocker Test.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Work in the coming quarter will consist of project management as well as the continuation of Task 1 and the beginning of Task 2 (Interim Report).

STATUS AND COMPLETION DATE:

The revised project timeline is shown as follows. Partially due to the one-month delay in contract approval and Coronavirus outbreak and subsequent lock-down of campus etc., we anticipate task delays by about three months. We will try to catch up on the schedule in the following quarters.

Task	Draft Due Date	Final Due Date
1	June 30, 2020	August 31, 2020
2	August 31, 2020	October 31, 2020
3	October 31, 2020	December 31, 2020
4	January 31, 2021	March 31, 2021
5	February 28, 2021	April 30, 2021
6	May 31, 2021	July 31, 2021

	2020										2021								
Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	X	X	X	X	X	X	X	X											
2							X	X	X	X									
3										X	X	X							
4										X	X	X	X	X	X				
5												X	X	X	X	X			
6																X	X	X	X