

State Planning and Research Program Quarterly Report

PROJECT TITLE: *Update to CR 13-04: Best Practices for Protecting DOT Equipment from the Corrosion effect of Chemical Deicers*

OBJECTIVES: Overall, this project aims to produce new data and renewed understanding to update the anticorrosion coating section of *CR 13-04 - Manual of Best Practices for the Prevention of Corrosion on Vehicles and Equipment* and thus provide guidance to encourage good practices and procedures that may be implemented.

PERIOD COVERED: January 1 – March 31, 2023

PARTICIPATING AGENCIES:

Washington State University – Prime
Monte Vista Associates LLC – Subcontractor
Roadtech, Inc. - Subcontractor

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT No. 1047787

PROJECT IS:

____ Planning
 X Research & Development

LEAD AGENCY: MnDOT

Federal Project No.
TPF-5(353)

PRINCIPAL INVESTIGATOR:

Xianming Shi, Ph.D., P.E., WSU

ANNUAL BUDGET:

\$99,985

PROJECT EXPENDITURES TO DATE:

\$11,472

WORK COMPLETED:

Project Management

The PI submitted a Quarterly Progress Report in Jan. 2023.

Task 1. Survey and Market Analysis (90% complete). In the last quarter, we have collected a sufficient number of valid responses for both the Survey and the Market Analysis Questionnaire. The draft task deliverable summarizing the findings of this work will be submitted on April 15, 2023.

Task 2. Developing the Experimental Plan (90% complete). The project team has developed the draft experimental plan on April 8, 2023, for the review by the project TAC.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Work in the coming quarter will consist of project management as well as the completion of Task 1 (Survey and Market Analysis), Task 2 (Developing the Experimental Plan) and the beginning of Task 3 (Execution of the Experimental Plan).

STATUS AND COMPLETION DATE:

We had a bit delay in contract approval and then we experienced significant and unexpected delays in securing a sufficient number of responses for the Survey and Market Analysis in Task 1. *As such, we are in the process of requesting a 6-month no-cost time extension to ensure that the research project will produce a quality product given a reasonable timeframe.* If approved, the updated timeline would be as follows.

Task	Current Task Start Date	Current End Date for Task Approval	Revised Task Start Date	Revised Due Date to Submit Draft Deliverables	Revised End Date for Task Approval
1	05/01/2022	07/31/2022	05/15/2022	04/15/2023	05/31/2023
2	07/01/2022	10/31/2022	01/01/2023	04/15/2023	05/31/2023
3	11/01/2022	07/31/2023	06/01/2023	01/31/2024	03/31/2024
4	06/01/2023	10/31/2023	01/01/2024	03/31/2024	05/31/2024
5	10/01/2023	02/28/2024	03/01/2024	05/31/2024	07/31/2024