

State Planning and Research Program Quarterly Report

PROJECT TITLE: *CR 21-02: 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: July 1 – Sept. 30, 2022

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:

\$4,606

WORK COMPLETED:

Project Management

The PI submitted a Quarterly Progress Report in July 2022.

Task 1. Survey and Market Analysis (40% complete). The PI developed a survey questionnaire and with the TAC's approval distributed it to Snow Ice List Serve and others to capture practitioner insights and lessons learned by roadway agencies on the relevant issue, i.e., deicer corrosion to equipment and vehicles. So far about 20 valid responses have been received. The work on market analysis has started in early Oct. 2022.

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) and the beginning of Task 2 (Developing the Experimental Plan).

STATUS AND COMPLETION DATE:

Partially due to the one-month delay in contract approval and the unexpected delay in securing sufficient number of survey responses, we are now about 4 months behind schedule but will try to catch up in the next quarters.

| 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 | | | |
| 2 | 07/01/2022 | 10/31/2022 | | | |
| 3 | 11/01/2022 | 07/31/2023 | | | |
| 4 | 06/01/2023 | 10/31/2023 | | | |
| 5 | 10/01/2023 | 02/28/2024 | | | |