

State Planning and Research Program Quarterly Report

PROJECT TITLE: *Identification and Recommendations for Correction of Equipment Factors Causing Fatigue in Snowplow Operations*

OBJECTIVES: Identify in-cab and external equipment factors that cause operator fatigue in snowplow operations.

PERIOD COVERED: May 18, 2016 to June 30, 2016

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

PROJECT MANAGER:

Debra Fick/Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.
1001325

PROJECT IS:

☐ Planning
☒ Research & Development

LEAD AGENCY:

Mn/DOT

Federal Project Number:
TPF-5(218)

PRINCIPAL INVESTIGATOR:

Jeffrey Hickman

ANNUAL BUDGET: \$200,000 (project budget)

PROJECT EXPENDITURES TO DATE: \$ 973.68

WORK COMPLETED:

- **Task 1: Kickoff Webinar.** In Task 1, the Virginia Tech Transportation Institute (VTTI) research team met with the project subcommittee via a webinar on June 10, 2016. The purpose of this kickoff meeting was to introduce project personnel, outline the project tasks, and solicit input from the Project Subcommittee. No revisions to the project tasks were requested during the kickoff meeting.
- **Task 2: Assemble Advisory Board.** In Task 2, the VTTI research team identified the members of the Project's Advisory Board. The Advisory Board will include all members of the Clear Roads Project Subcommittee. These members include Allen Williams, Cliff Spoonemore, Pattie Caswell, Tim Chojnacki, Tom Renninger, Wayne Gammell, Tom Peters, and Todd Law. Tim Peters and John Scharffbillig also joined the Advisory Board.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- On July 1, 2016, VTTI researchers will meet with the Advisory Board to finalize the list of specific equipment and technologies that may impact snowplow driver fatigue. These recommendations will inform the literature review.
- The VTTI research team will conduct a literature review to identify snowplow equipment that causes driver fatigue. The outcome of this literature review will be an annotated bibliography and knowledge database that details the results of the literature review. The literature review will be completed by September 30, 2016.

STATUS AND COMPLETION DATE:

This project is currently ongoing and ends on September 30, 2017.