Performance Measures for Roadside Features – Phase II

Performing research on maintenance operations to develop a risk index tool.

WHAT IS THE NEED?

Currently there are no proper operational performance metrics that can be used to evaluate the safety risks to highway workers in prioritizing and scheduling maintenance operations. There is a need to develop a risk index for comparing operational safety risks for different relevant maintenance functions based on associated parameters, such as time of operation, location, road geometry, traffic counts, and type of operation. Such metrics or index can then be used to plan, prioritize, and schedule maintenance operations to increase the efficiency of maintenance operations, and improve the safety of highway workers and traveling public.

WHAT ARE WE DOING?

The research team will evaluate a list of maintenance operations and develop a risk index tool that can be used to identify the parameters that affect the risks associated with specific maintenance operations. This task involves providing a technical evaluation of maintenance activities, capturing the experiences of California Department of Transportation (Caltrans) maintenance personnel who are involved in operations, installation, and maintenance of roadside features; and evaluating the databases related to work zone accidents to determine the factors that cause injuries to highway workers.
WHAT IS OUR GOAL?

The goal is to improve efficiency of maintenance operations and improve the safety of highway workers and traveling public.

WHAT IS THE BENEFIT?

The benefits of this research are anticipated to include identification of factors that affect the risks associated with specific maintenance operations, which can help improve the safety of highway workers and traveling public.

WHAT IS THE PROGRESS TO DATE?

The research is expected to begin in late June 2019.