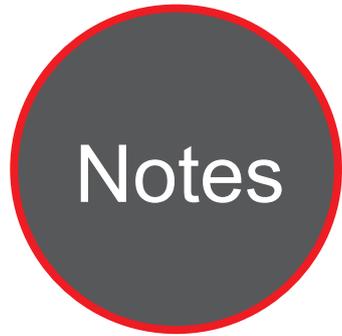




Caltrans Division of Research,
Innovation and System Information

Research



JUNE 2020

Project Title:
Review of Truck-Mounted
Accessories

Task Number: 3685

Start Date: November 1, 2019

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Task Manager:
Azzeddine Benouar
Transportation Engineer (Electrical)
azzeddine.benouar@dot.ca.gov

Review of Equipment and Accessories for Truck-Mounted Attenuator (TMA) Trucks

Evaluate various accessories and equipment available for TMA trucks that can improve safety and the function of TMA truck operations.

WHAT IS THE NEED?

The California Department of Transportation (Caltrans) Maintenance workers are exposed to risk of vehicle impact, particularly in temporary work zones. These work zones also present hazards to the traveling public related to presence of fixed and mobile equipment and vehicles. Caltrans has a need to review new technology in the form of equipment and accessories that are available for truck-mounted attenuator (TMA) trucks that can improve the safety and function of the TMA operations.

WHAT ARE WE DOING?

The Advanced Highway Maintenance and Construction Technology (AHMCT) Research Center proposes to evaluate specific equipment and accessories available for TMA trucks. This would include radar speed feedback signs, camera systems able to record multiple views, communication systems, and panic/warning lights.

WHAT IS OUR GOAL?

Reducing hazard to roadway workers and achieving a safer working environment for Caltrans' employees and the public remains a key and critical strategic priority for Caltrans.



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WHAT IS THE BENEFIT?

By identifying and evaluating equipment and accessories that can improve the safety of Caltrans' workers and the traveling public, Caltrans can procure technologies based on tangible demonstrated benefits, leading to a safer highway environment for all, and likely reduced overall costs.

WHAT IS THE PROGRESS TO DATE?

The AHMCT at the University of California Davis (UCD) has provided the vendor the Caltrans radar signboard performance specification and the vendor is working to modify their system to meet the specification. The vendor's technology package is to be installed on the Autonomous Truck Mounted Attenuator (ATMA) vehicle, with acceptance testing preformed on the UCD closed test track. AHMCT has created a complete list of features required to bring the technology package up to the level of functionality required. These system improvements have been reviewed by the vendor, and AHMCT is waiting for a price and timetable.