FEDERAL LEVEL TO THE LOCAL LEVEL: MASH & EDC 5

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A BRIEF HISTORY ON CRASH TESTING
MASH: Manual for Assessing Safety Hardware
- New Fleet
- New hardware
- AASHTO document
- TCRS

WHAT IS MASH? AND WHO OWNS IT?
New standard of practice
Joint FHWA/AASHTO Implementation agreement

Utilization of MASH 2016-compliant hardware will be required on new permanent installations and full replacements for projects let after the dates below:

- W-beam barrier and cast-in-place concrete barrier: December 31, 2017
- W-beam terminals: June 30, 2018
- Cable barrier, cable barrier terminals, and crash cushions: December 31, 2018
- Bridge rails, transitions, all other longitudinal barriers (including portable barriers installed permanently), all other terminals, sign supports, and all other breakaway hardware: December 31, 2019

Work Zone devices

WHY DO I NEED TO CARE?
Temporary work zone devices, including portable barriers, manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.
FHWA eligibility list for WZ devices

https://safety.fhwa.dot.gov/roadway_dept/countermeasures/reduce_crash_severity/listing.cfm?code=workzone

WORK ZONE DEVICES
Clarifications on Implementing the AASHTO *Manual for Assessing Safety Hardware*, 2016

*May 2018*

The following Q&A document has been developed for the purpose of clarifying and implementing the *Manual for Assessing Safety Hardware* (MASH), which is published by the American Association of State Highway and Transportation Officials (AASHTO). This document has been approved by AASHTO and FHWA for dissemination to the roadside safety hardware community. The responses below were developed by a joint AASHTO/FHWA technical working group of representatives from state transportation departments, the Federal Highway Administration, and accredited crash testing laboratories.
Who determines the “service life” for NCHRP Report 350-compliant work zone devices?
The owner-agency determines the service life of a work zone device. Decisions may be based on the use of a standard device lifetime, compliance with functional and/or visibility guidelines, or some other method.
Status of AASHTO MASH Implementation

On December 21, 2015, the AASHTO/FHWA Joint Implementation Agreement* for AASHTO MASH was successfully balloted by AASHTO’s Standing Committee on Highways and approved by FHWA. The Agreement helps encourage the application of the newest and safest generation of roadside hardware. It defined actions needed for full implementation of AASHTO’s MASH over the course of several years.

The FHWA Office of Safety is tracking whether States have or will have a policy in place that requires installation of the safety hardware by the date set forth in the AASHTO/FHWA Joint Implementation Agreement and subsequent exceptions*. The graphs below represent the states’ status as of June 2018. The next update will occur in October 2018.

Summary of results by State

FOR MORE INFORMATION:
https://safety.fhwa.dot.gov/roadway_dept/countermeasures/reduce_crash_severity/aashto_mash_implementation.cfm
Advanced Geotechnical Exploration Methods
Collaborative Hydraulics: Advancing to the Next Generation of Engineering (CHANGE)
Project Bundling
Reducing Rural Roadway Departures
Safe Transportation for Every Pedestrian (STEP)

EDC 5 INITIATIVES
EDC 5 INITIATIVES

- Unmanned Aerial Systems (UAS)
- Use of Crowdsourcing to Advance Operations
- Value Capture: Capitalizing on the Value Created by Transportation
- Virtual Public Involvement
- Weather-Responsive Management Strategies
- Major contributor to fatalities
- Systemic application of countermeasures
  - Rumbles
  - HFST
  - Clear zones
  - Etc.

REDUCING RURAL ROADWAY DEPARTURE
SAFE TRANSPORTATION FOR EVERY PEDESTRIAN (STEP)

- Aimed at reducing Pedestrian fatalities
- Cost effective countermeasures
  - RRFB
  - LPI
  - Crosswalk visibility enhancements
  - Raised crosswalks
  - Refuge islands
  - Pedestrian Hybrid Beacons
  - Road Diets
What are your safety challenges?

What are your needs?

I’D LIKE TO HEAR FROM YOU

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